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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 04	Precision of EMBASE searching enhanced with new chemical name field
NEWS	3	OCT 06	Increase your retrieval consistency with new formats or for Taiwanese application numbers in CA/CAPLUS.
NEWS	4	OCT 21	CA/CAPLUS kind code changes for Chinese patents increase consistency, save time
NEWS	5	OCT 22	New version of STN Viewer preserves custom highlighting of terms when patent documents are saved in .rtf format
NEWS	6	OCT 28	INPADOCDB/INPAFAMDB: Enhancements to the US national patent classification.
NEWS	7	NOV 03	New format for Korean patent application numbers in CA/CAPLUS increases consistency, saves time.
NEWS	8	NOV 04	Selected STN databases scheduled for removal on December 31, 2010
NEWS	9	NOV 18	PROUSDDR and SYNTHLINE Scheduled for Removal December 31, 2010 by Request of Prous Science
NEWS	10	NOV 22	Higher System Limits Increase the Power of STN Substance-Based Searching
NEWS	11	NOV 24	Search an additional 46,850 records with MEDLINE backfile extension to 1946
NEWS	12	DEC 14	New PNK Field Allows More Precise Crossover among STN Patent Databases
NEWS	13	DEC 18	ReaxysFile available on STN
NEWS	14	DEC 21	CAS Learning Solutions -- a new online training experience
NEWS	15	DEC 22	Value-Added Indexing Improves Access to World Traditional Medicine Patents in CAPLUS
NEWS	16	JAN 24	The new and enhanced DPCI file on STN has been released
NEWS	17	JAN 26	Improved Timeliness of CAS Indexing Adds Value to USPTAFULL and USPTA2 Chemistry Patents
NEWS	18	JAN 26	Updated MeSH vocabulary, new structured abstracts, and other enhancements improve searching in STN reload of MEDLINE
NEWS	19	JAN 28	CABA will be updated weekly

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:05:03 ON 04 FEB 2011

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.23

0.23

FILE 'REGISTRY' ENTERED AT 09:05:28 ON 04 FEB 2011

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

DICTIONARY FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

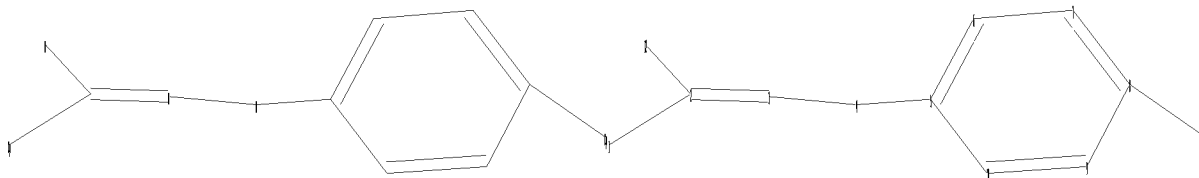
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\105514141.str



chain nodes :

1 2 3 4 11 12

ring nodes :

5 6 7 8 9 10

chain bonds :

1-2 2-3 2-12 3-4 4-5 8-11

ring bonds :

5-6 5-10 6-7 7-8 8-9 9-10

exact/norm bonds :

1-2 2-3 3-4 4-5 8-11

exact bonds :

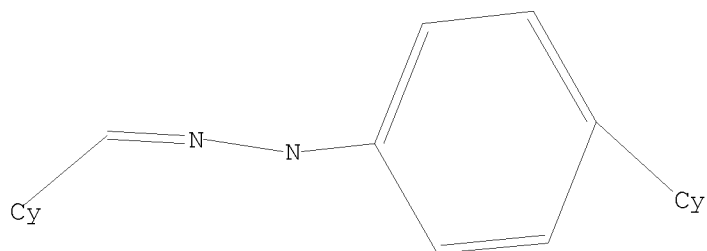
2-12

normalized bonds :
5-6 5-10 6-7 7-8 8-9 9-10

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:05:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 39000 TO ITERATE

100.0% PROCESSED 39000 ITERATIONS 32 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 768190 TO 791810
PROJECTED ANSWERS: 301 TO 979

L2 32 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 09:05:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 783146 TO ITERATE

100.0% PROCESSED 783146 ITERATIONS 586 ANSWERS
SEARCH TIME: 00.00.05

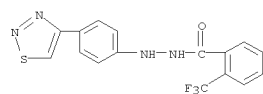
L3 586 SEA SSS FUL L1

=> s l3 and caplus/lc
73574402 CAPLUS/LC
L4 516 L3 AND CAPLUS/LC

=> s l3 not l4
L5 70 L3 NOT L4

=> d l5 60

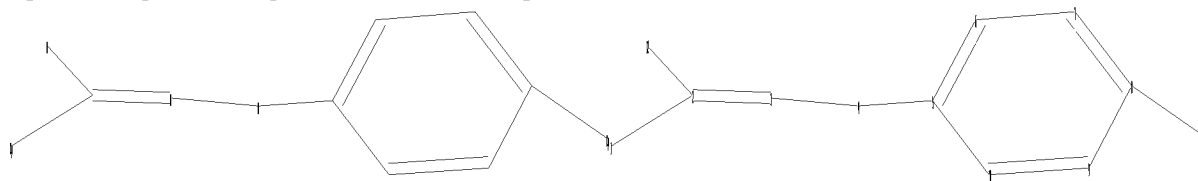
L5 ANSWER 60 OF 70 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-70-8 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzoic acid, 2-(trifluoromethyl)-,
2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazide (CA INDEX NAME)
MF C16 H11 F3 N4 O S
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\105514141.str



chain nodes :

1 2 3 4 11 12

ring nodes :

5 6 7 8 9 10

chain bonds :

1-2 2-3 2-12 3-4 4-5 8-11

ring bonds :

5-6 5-10 6-7 7-8 8-9 9-10

exact/norm bonds :

1-2 2-3 3-4 4-5 8-11

exact bonds :

2-12

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS

L6 STRUCTURE UPLOADED

=> s 16 subset=l3 full

FULL SUBSET SEARCH INITIATED 09:06:58 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 586 TO ITERATE

100.0% PROCESSED 586 ITERATIONS

393 ANSWERS

SEARCH TIME: 00.00.01

L7 393 SEA SUB=L3 SSS FUL L6

=> s 17 and caplus/lc

73574402 CAPLUS/LC

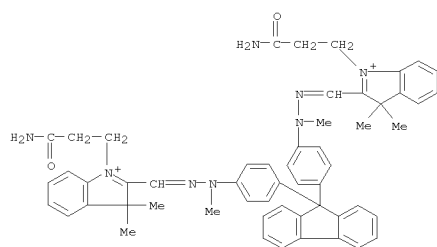
L8 338 L7 AND CAPLUS/LC

=> s 17 not 18

L9 55 L7 NOT L8

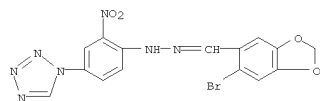
=> d 19 40

L9 ANSWER 40 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 689735-86-2 REGISTRY
 ED Entered STN: 04 Jun 2004
 CN 3H-Indolium, 2,2'-[9H-Fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(3-amino-3-oxopropyl)-3,3-dimethyl-9CI) (CA INDEX NAME)
 MF C55 H56 N8 O2
 CI CCM
 SR CA



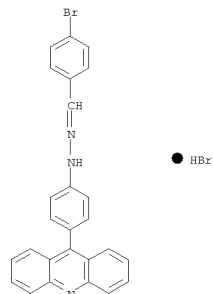
=> d 19 41-55

L9 ANSWER 41 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 392704-61-9 REGISTRY
 ED Entered STN: 15 Feb 2002
 CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-,
 2-[2-nitro-4-(1H-tetrazol-1-yl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-,
 [2-nitro-4-(1H-tetrazol-1-yl)phenyl]hydrazone (9CI)
 MF C15 H10 Br N7 O4
 SR Chemical Library
 Supplier: LaboTest
 LC STN Files: CHEMCATS

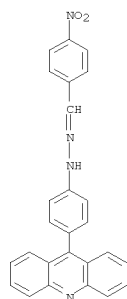


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 42 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 339540-70-4 REGISTRY
 ED Entered STN: 06 Jun 2001
 CN Benzaldehyde, 4-bromo-, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrobromide
 (1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 4-bromo-, [4-(9-acridinyl)phenyl]hydrazone,
 monohydrobromide (9CI)
 MF C26 H18 Br N3 . Br H
 SR Reaction Database
 LC STN Files: CASREACT
 CRN (752145-00-9)

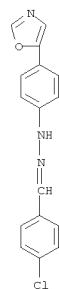


L9 ANSWER 43 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 337958-43-7 REGISTRY
 ED Entered STN: 24 May 2001
 CN Benzaldehyde, 4-nitro-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 4-nitro-, [4-(9-acridinyl)phenyl]hydrazone (9CI)
 MF C26 H18 N4 O2
 SR Reaction Database
 LC STN Files: CASREACT



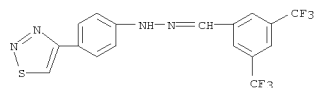
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 44 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 253865-16-6 REGISTRY
 ED Entered STN: 31 Jan 2000
 CN Benzaldehyde, 4-chloro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 4-chloro-, [4-(5-oxazolyl)phenyl]hydrazone (9CI)
 MF C16 H12 Cl N3 O
 SR CAS Client Services
 LC STN Files: CHEMCATS



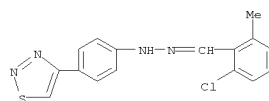
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 45 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 253664-44-7 REGISTRY
 ED Entered STN: 27 Jan 2000
 CN Benzaldehyde, 3,5-bis(trifluoromethyl)-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 3,5-bis(trifluoromethyl)-, [4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (9CI)
 MF C17 H10 F6 N4 S
 SR CAS Client Services
 LC STN Files: CHEMCATS



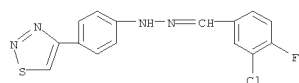
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 46 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 253586-78-6 REGISTRY
 ED Entered STN: 26 Jan 2000
 CN Benzaldehyde, 2-chloro-6-methyl-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 2-chloro-6-methyl-, [4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (9CI)
 MF C16 H13 Cl N4 S
 SR CAS Client Services
 LC STN Files: CHEMCATS



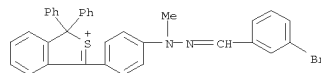
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 47 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 253586-77-5 REGISTRY
 ED Entered STN: 26 Jan 2000
 CN Benzaldehyde, 3-chloro-4-fluoro-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, 3-chloro-4-fluoro-, [4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (9CI)
 MF C15 H10 Cl F N4 S
 SR CAS Client Services

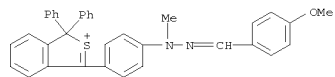


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

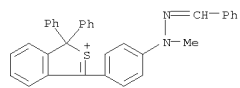
L9 ANSWER 48 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 173993-65-2 REGISTRY
 ED Entered STN: 08 Mar 1996
 CN 1H-Benzo[c]thiolium, 3-[4-[[[3-bromophenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
 MF C34 H26 Br N2 S
 CI CCM
 SR CA



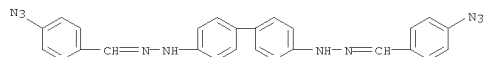
L9 ANSWER 49 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 173993-63-0 REGISTRY
 ED Entered STN: 08 Mar 1996
 CN 1H-Benzo[c]thiolium, 3-[4-[[4-methoxyphenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
 MF C35 H29 N2 O S
 CI CCM
 SR CA



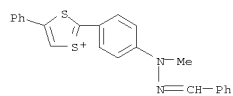
L9 ANSWER 50 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 173993-61-8 REGISTRY
 ED Entered STN: 08 Mar 1996
 CN 1H-Benzo[c]thiolium, 3-[4-[methyl(phenylmethylene)hydrazino]phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
 MF C34 H27 N2 S
 CI CCM
 SR CA



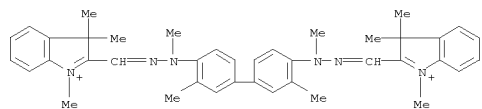
L9 ANSWER 51 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 169798-15-6 REGISTRY
 ED Entered STN: 08 Nov 1995
 CN Benzaldehyde, 4-azido-, [1,1'-biphenyl]-4,4'-diylldihydrazone (9CI) (CA INDEX NAME)
 MF C26 H20 N10
 SR CAS Client Services
 LC STN Files: CHEMLIST



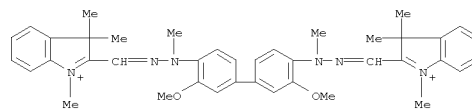
L9 ANSWER 52 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 79913-16-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1,3-Dithiol-1-ium, 2-[4-[1-methyl-2-(phenylmethylene)hydrazinyl]phenyl]-4-phenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3-Dithiol-1-ium, 2-[4-[methyl(phenylmethylene)hydrazino]phenyl]-4-phenyl- (9CI)
 MF C23 H19 N2 S2
 CI CCM



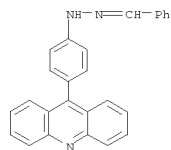
L9 ANSWER 53 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 72970-87-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3H-Indolium,
 2,2'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis[(2-methyl-2-
 hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl- (9CI) (CA INDEX
 NAME)
 MF C40 H46 N6
 CI CCM



L9 ANSWER 54 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 72970-81-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3H-Indolium,
 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis[(2-methyl-2-
 hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl- (9CI) (CA INDEX
 NAME)
 MF C40 H46 N6 O2
 CI CCM



L9 ANSWER 55 OF 55 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 54132-13-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone, hydriodide (1:1) (CA
 INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzaldehyde, [4-(9-acridinyl)phenyl]hydrazone, monohydriodide (9CI)
 MF C26 H19 N3 . H I
 CRN (55754-26-2)



● HI

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	294.72	294.95

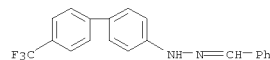
FILE 'CAPLUS' ENTERED AT 09:09:43 ON 04 FEB 2011
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FILE COVERS 1907 - 4 Feb 2011 VOL 154 ISS 7
FILE LAST UPDATED: 3 Feb 2011 (20110203/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2010

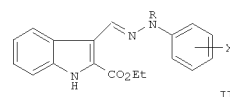
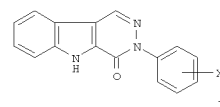
Caplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

L10 ANSWER 1 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:1383341 CAPLUS
 DOCUMENT NUMBER: 154:109156
 TITLE: Palladium-Catalyzed Cross-Coupling of Aryl Chlorides and Tosylates with Hydrazine
 AUTHOR(S): Lundgren, Rylan J.; Stradiotto, Mark
 CORPORATE SOURCE: Department of Chemistry, Dalhousie University, Halifax, NS, B3H 4J3, Can.
 SOURCE: Angewandte Chemie, International Edition (2010), 49(46), 8686-8690, S8686/1-S8686/45
 CODEN: AClEF5; ISSN: 1433-7851
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The cross-coupling of aryl chlorides and tosylates with hydrazine in presence of cinnamylpalladium chloride dimer and 4-[2-(bis(1-adamantanyl)phosphinyl)phenyl]morpholine proceeds rapidly with excellent chemoselectivity under mild conditions.
 IT 1260000-08-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (palladium-catalyzed cross-coupling of aryl chlorides and tosylates with hydrazine)
 RN 1260000-08-5 CAPLUS
 CN Benzaldehyde, 2-[4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



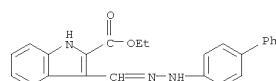
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)
 REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L10 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:1530507 CAPLUS
 DOCUMENT NUMBER: 152:454027
 TITLE: Syntheses of some new 3-aryl derivatives of 3-aryl-4-oxo-3H,5H-pyridazino[4,5-b]indoles
 AUTHOR(S): Samsoniya, Shota A.; Kalatozishvili, Akaki Z.; Chikvaldze, Ioseb Sh.; Stolz, Daniel; Kazmaier, Uli
 CORPORATE SOURCE: Ivane Javakishvili Tbilisi State University, Tbilisi,
 Georgia
 SOURCE: Sakartvelos Mecnierebata Akademiis Macne, Kimiis
 Seria
 (2009), 35(2), 162-166
 CODEN: IANKEJ
 PUBLISHER: Proizvodstvenno-Izdatel'skoe Ob'edinenie
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 152:454027
 GI

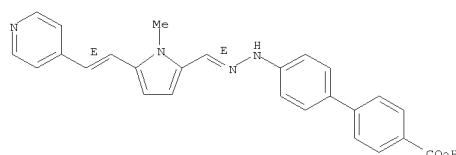


AB The general method of syntheses of 3-aryl-4-oxo-3H,5H-pyridazino[4,5-b]indoles I [X = Cl-4, Br-4, Ph-4, NO2-4, NO2-2, NO2-3, Ph-2, H] has been studied. In order to detect new compds. with beneficial properties, new 3-aryl-4-oxo derivs. of 3H,5H-pyridazino[4,5-b]indoles which are heterocycles with three nitrogen atoms and aza analog of β -carbonyl have been synthesized. 2-(Ethoxycarbonyl)indole has been selected as a key compound for the syntheses. Cl-, Br-, NO2 groups of the second Ph and benzyl are contained in the hydrazone fragment of the Ph core. The optimum conditions, boiling in icy acetic acid during 1-3 h, have been chosen for cyclization of the arylhydrazones II [R = H, CH2Ph; X = Cl-4, Br-4, Ph-4, NO2-4, NO2-2, NO2-3, Ph-2, H].
 IT 1220252-13-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclocondensation of; syntheses of some new 3-aryl derivs.

L10 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 of 3-aryl-4-oxo-3H,5H-pyridazino[4,5-b]indoles)
 RN 1220252-13-0 CAPLUS
 CN 1H-Indole-2-carboxylic acid, 3-[(2-[1,1'-biphenyl]-4-yl)hydrazinylidene)methyl]-, ethyl ester (CA INDEX NAME)



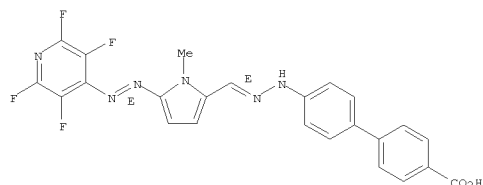
L10 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:972184 CAPLUS
 DOCUMENT NUMBER: 151:313051
 TITLE: Self-Assembly from the Gas-Phase: Design and Implementation of Small-Molecule Chromophore Precursors with Large Nonlinear Optical Responses
 AUTHOR(S): Frattarelli, David; Schiavo, Michele; Facchetti, Antonio; Ratner, Mark A.; Marks, Tobin J.
 CORPORATE SOURCE: Department of Chemistry and the Materials Research Center, Northwestern University, Evanston, IL, 60208-3113, USA
 SOURCE: Journal of the American Chemical Society (2009), 131(35), 12595-12612
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 151:313051
 AB Efficiently organizing mol. nonlinear optical (NLO) chromophores having large first-order hyperpolarizabilities (β) into acentric microstructures for electro-optic (EO) applications represents a significant materials synthesis and processing challenge, in part due to interchromophore dipolar interactions that promote centrosym. organization. Here we report the computational modeling, synthesis, and characterization of a series of eight heteroarom. organic chromophores, designed to self-organize from the vapor phase via directed hydrogen-bond networks, into acentric thin films. Introduction of α,ω -donor-acceptor hydrogen-bonding substituents along the mol. long axes tunes properties such as hyperpolarizability, volatility, thermal stability, film-forming properties, and macroscopic NLO response ($\chi(2)$). DFT-level mol. modeling, INDO/S optical property anal., and sum-overstates computation indicate that mol.-core fluorination and hydrogen-bond donor incorporation can increase β_{vec} up to 40+ vs. that of typical fluorine-free chromophores. Furthermore, inclusion of sterically induced biphenyl conjugative decoupling between chromophore π -donor substituents and the hydrogen-bonding donor sites increases β by approx.50%. Exptl. thin-film second harmonic generation (SHG) spectroscopy confirms these trends in calculated responses, with $\chi(2)$ increasing 7.5+ upon chromophore core fluorination and 15+ with hydrogen-bonding donor substitution, thereby achieving macroscopic responses as high as 302 pm/V at $\omega_0 = 1064$ nm. In addition to response trends, cluster calcs. also reveal linear additivity in β_{vec} with catenation for all benzoic acid-containing chromophores up to longitudinally aligned trimers. Linear scaling of SHG response with film thickness is observed for benzoic acid-containing chromophores up to 1.0 μm film thickness.
 IT 1185745-97-4P 1185745-99-6P
 RL: NANO (Nanomaterial); PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (self-assembly from gas-phase, design and implementation of small-mol. chromophore precursors with large nonlinear optical responses)
 RN 1185745-97-4 CAPLUS
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[(2E)-2-[[1-methyl-5-[(1E)-2-(4-(4-pyridinyl)ethenyl]-1H-pyrrol-2-yl)methylene]hydrazinyl]- (CA INDEX NAME)
 Double bond geometry as shown.



RN 1185745-99-6 CAPLUS
CN [1,1'-Biphenyl]-4-carboxylic acid,

4'-[(2E)-2-[[1-methyl-5-[(1E)-2-(2,3,5,6-tetrafluoro-4-pyridinyl)diaz-enyl]-1H-pyrrol-2-yl]methylene]hydrazinyl]- (CA INDEX NAME)

Double bond geometry as shown.



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS
RECORD
(5 CITINGS)
REFERENCE COUNT: 165 THERE ARE 165 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

ACCESSION NUMBER: 2007:1390731 CAPLUS
DOCUMENT NUMBER: 148:158944

TITLE: Orally administered amyloidophilic compounds is effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner
AUTHOR(S): Kawasaki, Yuri; Kawagoe, Keiichi; Chen, Chun-jen; Teruya, Kenta; Sakasegawa, Yuji; Doh-ura, Katsumi
CORPORATE SOURCE: Department of Prion Research, Tohoku University Graduate School of Medicine, Sendai, Japan
SOURCE: Journal of Virology (2007), 81(23), 12889-12898
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The establishment of effective therapeutic interventions for prion diseases is necessary. We report on a newly developed amyloidophilic compound that displays therapeutic efficacy when administered orally.

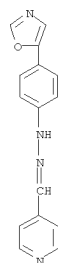
This compound inhibited abnormal prion protein formation in prion-infected neuroblastoma cells in a prion strain-dependent manner: effectively for RML prion and marginally for 22L prion and Fukuoka-1 prion. When the highest dose (0.24 [wt/wt] in feed) was given orally to cerebrally RML prion-inoculated mice from inoculation until the terminal stage of disease, it extended the incubation periods by 2.3 times compared to the control. The compound exerted therapeutic efficacy in a prion strain-dependent manner such as that observed in the cell culture study: most effective for RML prion, less effective for 22L prion or Fukuoka-1 prion, and marginally effective for 263K prion. Its effectiveness depended on an earlier start of administration. The glycoform pattern of the abnormal prion protein in the treated mice was modified and showed predominance of the diglycosylated form, which resembled that of 263K prion, suggesting that diglycosylated forms of abnormal prion protein might be least sensitive or resistant to the compound. The mechanism of the prion strain-dependent effectiveness needs to be elucidated and managed. Nevertheless, the identification of an orally available amyloidophilic chemical encourages the pursuit of chemotherapy for prion diseases.

IT 774236-55-4 774237-10-4 774237-49-9
774237-60-4 774237-91-1 774237-93-3
1001853-74-2

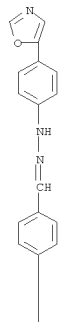
RI: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(orally administered amyloidophilic compds. are effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner)

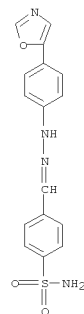
RN 774236-55-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



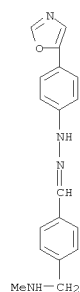
RN 774237-10-4 CAPLUS
CN Benzaldehyde, 4-[(1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



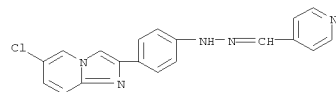
RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



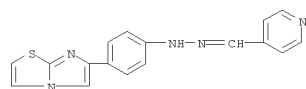
RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-91-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-93-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-imidazo[2,1-b]thiazol-6-ylphenyl)hydrazone (CA INDEX NAME)

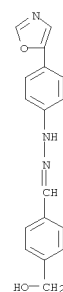
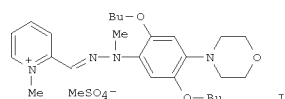


RN 1001853-74-2 CAPLUS
CN Benzaldehyde, 4-(hydroxymethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

ACCESSION NUMBER: 2007:1275572 CAPLUS
DOCUMENT NUMBER: 147:508062
TITLE: Specific monocationic monochromophoric compounds of hydrazone type comprising a 2-, 4-pyridinium or 2-, 4-quinolinium unit, synthesis thereof, dye compositions containing them, and method for dyeing keratin fibers
INVENTOR(S): David, Herve; Murguet, Nadege; Greaves, Andrew
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 92pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007125238	A1	20071108	WO 2007-FR51111	20070413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2899897	A1	20071019	FR 2006-3322	20060413
FR 2899897	B1	20080627		
EP 2010494	A1	20090107	EP 2007-788947	20070413
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
US 20090300856	A1	20091210	US 2009-296721	20090713
PRIORITY APPLN. INFO.:			FR 2006-3322	A 20060413
			US 2006-796516P	P 20060502
			WO 2007-FR51111	W 20070413

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:508062
GI

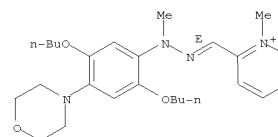


OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Monocationic monochromophoric compds. having hydrazone groups attached to pyridinium or quinolinium rings at the 2 or 4 position and aromatic groups attached to the other N of the hydrazone group are manufactured for oxidative coloring of hair shades that are resistance to shampooing and alkaline lightening. A typical compound (I) was manufactured by treating Me2SO4 with 2-(methoxycarbonylmethyl)pyridine in CH2Cl2 overnight, removal of the CH2Cl2, treatment of the reaction mixture with NaOH, reaction of the intermediate with 2,5-dibutoxy-4-(4-morpholinyl)benzenediazonium tetrafluoroborate in aqueous MeOH at 0° for 3 h, treatment of the 2nd intermediate with aqueous MeOH and NaOH at 40° for 3 h, and reaction of the 3rd intermediate with Me2SO4 in CH2Cl2 in the presence of K2CO3.
IT 952585-75-0P 955999-65-2P 955999-75-4P
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrazone-type monocationic monochromophoric compds. having pyridinium or quinolinium units for oxidative coloring of hair shades resistant to shampooing and lightening)

RN 952585-75-0 CAPLUS
CN Pyridinium, 2-[(E)-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]-2-methylhydrazinylidene]methyl]-1-methyl-, methyl sulfate (1:1) (CA INDEX NAME)
CM 1
CRN 952585-74-9
CMF C26 H39 N4 O3

Double bond geometry as shown.



CM 2
CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO3-

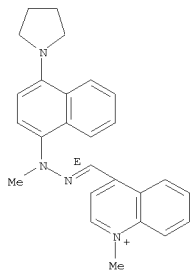
RN 955999-65-2 CAPLUS
CN Quinolinium, 1-methyl-4-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthienyl]hydrazinylidene]methyl]-, methyl sulfate (1:1) (CA INDEX NAME)

L10 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

CM 1

CRN 955999-64-1
CMF C26 H27 N4

Double bond geometry as shown.



CM 2

CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO₃⁻

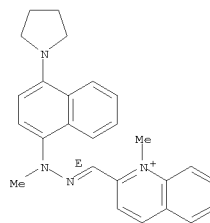
RN 955999-75-4 CAPLUS
CN Quinolinium, 1-methyl-2-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]methyl]-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 955999-74-3
CMF C26 H27 N4

Double bond geometry as shown.

L10 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



CM 2

CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO₃⁻

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:1179681 CAPLUS
DOCUMENT NUMBER: 147:474291
TITLE: Particulate monocationic monochromophoric compounds of

the hydrazone type comprising a 4-pyridinium or 2,4-quinolinium group, their synthesis, hair dye compositions comprising them, and process for dyeing keratin fibers

INVENTOR(S): David, Herve; Murguet, Nadege; Greaves, Andrew
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 81pp.

DOCUMENT TYPE: CODEN: FRXXBL

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 2 French

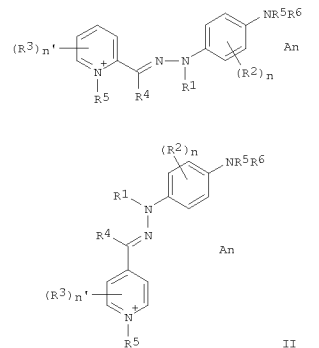
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2899897	A1	20071019	FR 2006-3322	20060413
FR 2899897	B1	20080627		
WO 2007125238	A1	20071108	WO 2007-FR51111	20070413
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GE, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 2010494	A1	20090107	EP 2007-788947	20070413
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
US 20090300856	A1	20091210	US 2009-296721	20090713
PRIORITY APPLN. INFO.:			FR 2006-3322	A 20060413
			US 2006-796516P	P 20060502
			WO 2007-FR51111	W 20070413

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:474291

GI

L10 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



AB Monochromophoric monocationic compds. I and/or II in which R1 represents a hydrogen, an alkyl radical, Ph, benzyl, alkylcarbonyl, alkylsulfonfyl, aminosulfonfyl, aminocarbonyl; R5, represents an alkyl radical, Ph, benzyl;

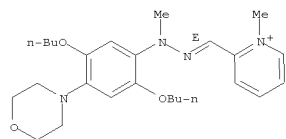
R2 and R3, represents a halogen, an alkyl radical, aryloxy, arylamino, hydroxyl, alkoxy, (poly)hydroxyalkoxy, alkoxy carbonyl, alkylcarbonyloxy, amino, alkylcarbonylamino, aminocarbonyl, ureido, aminosulfonfyl, alkylthio, alkylsulfonfylamino, cyano, trifluoromethyl, thio, alkylsulfonfyl, alkylsulfonfyl; R4 represents a hydrogen, an alkyl radical, amino, alkylcarbonylamino, ureido, alkylsulfonfylamino, hydroxycarbonyl, alkoxy carbonyl, cyano, Ph, benzyl; R6 and R7, represent a hydrogen, an alkyl radical, alkylcarbonyl, alkoxy carbonyl, alkoxyaryl, aminoaryl, aminocarbonyl, alkylsulfonfyl, n is between 0 and 4, n' is not between 0 and 4, the electroneutrality of compound of formula I being ensured by one or more An cosmetically acceptable anions are prepared and used as hair dye.

Thus, 2-[(E)-[4-[(4-methoxyphenyl)amino]phenyl](methyl)hydrazono]methyl]-1-methylpyridinium methosulfate (III) was prepared by the reaction of 2-[(E)-[4-[(4-methoxyphenyl)amino]phenyl](methyl)hydrazono]methyl-1-methylpyridinium (preparation given) with di-Me sulfate. Formulation of a dye containing 5 + 10-3 III is disclosed.

IT 952585-75-0P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(particulate monocationic monochromophoric compds. of hydrazone type comprising 4-pyridinium or 2,4-quinolinium group, their synthesis, hair

L10 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
dye compns. comprising them, and process for dyeing keratin fibers)
RN 952585-75-0 CAPLUS
CN Pyridinium, 2-[(E)-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]-2-
methylhydrazinylidene]methyl]-1-methyl-, methyl sulfate (1:1) (CA INDEX
NAME)
CM 1
CRN 952585-74-9
CMP C26 H39 N4 O3

Double bond geometry as shown.



CM 2
CRN 21228-90-0
CMP C H3 O4 S

Me⁻O⁻SO₃⁻

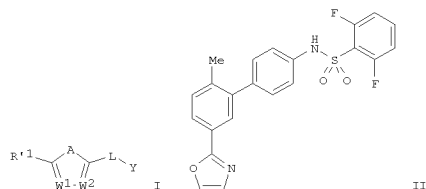
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L10 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:846014 CAPLUS
DOCUMENT NUMBER: 147:235151
TITLE: Substituted aromatic compounds for inflammation and
immune-related uses and their preparation
Chen, Shoujun; Sun, Lijun; Xie, Yu
INVENTOR(S):
PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA
SOURCE: PCT Int. Appl., 111pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007087441	A2	20070802	WO 2007-US2305	20070125
WO 2007087441	A3	20071108		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2007208239	A1	20070802	AU 2007-208239	20070125
CA 2640090	A1	20070802	CA 2007-2640090	20070125
US 20070249050	A1	20071025	US 2007-698780	20070125
EP 1983971	A2	20081029	EP 2007-762448	20070125
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
JP 2009528983	T	20090813	JP 2008-552472	20070125
PRIORITY APPLN. INFO.:			US 2006-762168P	P 20060125
			US 2006-762169P	P 20060125
			WO 2007-US2305	W 20070125

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 147:235151; MARPAT 147:235151
GI

L10 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

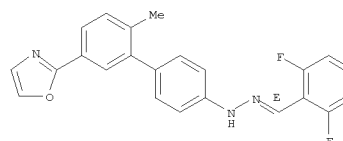


AB The invention relates to compds. of structural formula I: formula I, or a
pharmaceutically acceptable salt, solvate, clathrate, or prodrug thereof.
Compds. of formula I wherein A is O, S, NH and derivs. CH=CH, N=N, etc.;
W1 and W2 are independently CH, N, C-alkyl, C-alkenyl, etc.; Y is
(un)substituted (hetero)aryl; L is NHCH2 and derivs., CH2NH and derivs.,
CO, NHCO and derivs., etc.; R'1 is (un)substituted (hetero)aryl; and
their
pharmaceutically acceptable salts, solvates, clathrates, or prodrugs
thereof, are claimed. These compds. are useful as immunosuppressive
agents and for treating and preventing inflammatory conditions, allergic
disorders, and immune disorders. Example compound II was prepared by
cross-coupling of 2-(3-iodo-4-methylphenyl)oxazole with
resulting
2'-methyl-5'-oxazol-2-ylbiphenyl-4-ylamine underwent sulfonylation with
2,6-difluorobenzenesulfonyl chloride to give compound II. All the
invention
compds. were evaluated for their IL-2 production inhibitory activity.

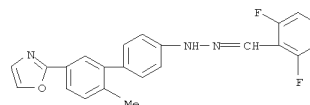
From the assay, it was determined that compound II exhibited an IC50 value in
the
range of 50 nM < and < 500 nM.
IT 945385-38-6P 945386-04-9P 945386-05-0P
945386-06-1P 945386-07-2P 945386-08-3P
945386-09-4P 945386-10-7P 945386-11-8P
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(drug candidate; preparation of oxazolyl-substituted biphenyl and
pyridylphenyl derivs. useful in treatment and prevention of
inflammatory conditions, allergic and immune diseases)
RN 945385-38-6 CAPLUS
CN Benzaldehyde, 2,6-difluoro-,
2-[2'-methyl-5'-(2-oxazolyl)[1,1'-biphenyl]-4-
yl]hydrazine, [C(E)]- (CA INDEX NAME)

Double bond geometry as shown.

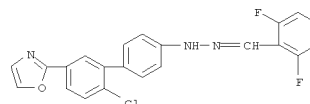
L10 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



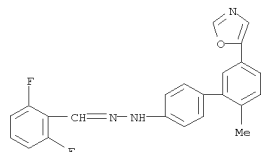
RN 945386-04-9 CAPLUS
CN Benzaldehyde, 2,6-difluoro-,
2-[2'-methyl-5'-(2-oxazolyl)[1,1'-biphenyl]-4-
yl]hydrazine (CA INDEX NAME)



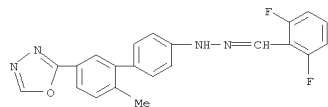
RN 945386-05-0 CAPLUS
CN Benzaldehyde, 2,6-difluoro-,
2-[2'-chloro-5'-(2-oxazolyl)[1,1'-biphenyl]-4-
yl]hydrazine (CA INDEX NAME)



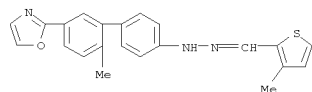
RN 945386-06-1 CAPLUS
CN Benzaldehyde, 2,6-difluoro-,
2-[2'-methyl-5'-(5-oxazolyl)[1,1'-biphenyl]-4-
yl]hydrazine (CA INDEX NAME)



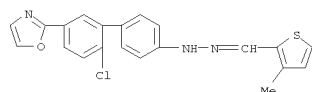
RN 945386-07-2 CAPLUS
CN Benzaldehyde, 2,6-difluoro-, 2-[2'-methyl-5'-(1,3,4-oxadiazol-2-yl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



RN 945386-08-3 CAPLUS
CN 2-Thiophenecarboxaldehyde, 3-methyl-, 2-[2'-methyl-5'-(2-oxazolyl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



RN 945386-09-4 CAPLUS
CN 2-Thiophenecarboxaldehyde, 3-methyl-, 2-[2'-chloro-5'-(2-oxazolyl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)

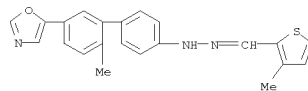
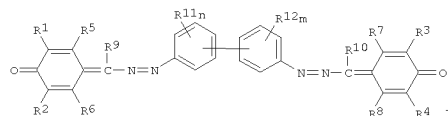


RN 945386-10-7 CAPLUS
CN 2-Thiophenecarboxaldehyde, 3-methyl-,

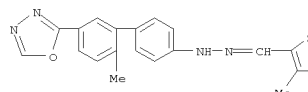
ACCESSION NUMBER: 2007:817398 CAPLUS
DOCUMENT NUMBER: 147:177041
TITLE: Quinone compound having excellent electron transporting ability, electrophotographic photosensitive body and electrophotographic apparatus
INVENTOR(S): Okura, Kenichi; Nakamura, Yoichi; Takeshima, Motohiro;
Hasegawa, Yoshiki; Kenmochi, Hiroyuki; Kobayashi, Tohru
PATENT ASSIGNEE(S): Fuji Electric Device Technology Co., Ltd., Japan; Takasago International Corporation
SOURCE: PCT Int. Appl., 60pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007083652	A1	20070726	WO 2007-JP50574	20070117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 112007000172	T5	20081224	DE 2007-112007000172	20070117
KR 2008093025	A	20081017	KR 2008-7016549	20080708
CN 101371201	A	20090218	CN 2007-80002686	20080718
US 20090317733	A1	20091224	US 2008-87890	20081001
PRIORITY APPLN. INFO.:				JP 2006-10183 A 20060118
				WO 2007-JP50574 W 20070117

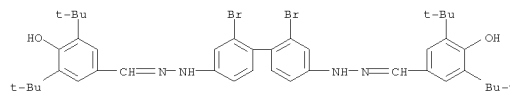
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:177041
GI



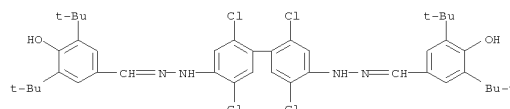
RN 945386-11-8 CAPLUS
CN 2-Thiophenecarboxaldehyde, 3-methyl-, 2-[2'-methyl-5'-(1,3,4-oxadiazol-2-yl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



AB Disclosed is a compound having excellent electron transporting ability, which is useful for electrophotog. photosensitive bodies or organic EL devices. Also disclosed is a highly sensitive, pos. charge type electrophotog. photosensitive body for copying machines and printers, wherein the novel organic material is used as a charge-transporting material in a photosensitive layer. Further disclosed is an electrophotog. apparatus using such a pos. charge type electrophotog. photosensitive body. Specifically disclosed is a novel quinone compound having a structure represented by the general formula I (R1-8 = H, Cl--6-alkyl, cycloalkyl; R9, R10 = H, Cl-6-alkyl, aryl, heterocyclyl; R11, R12 = halo, Cl-6-alkyl, Cl-6-alkoxy, Cl-6-haloalkyl, OH, nitro, aryl, heterocyclyl; n, m = 0-4). Also specifically disclosed is an electrophotog. photosensitive body having a photosensitive layer formed on a conductive base and containing a charge-generating material and a charge-transporting material, wherein the photosensitive layer contains at least one of the above-described compds.
IT 943977-33-1P 943977-34-2P 943977-35-3P
943977-36-4P 943977-37-5P
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
electron (quinone compound synthesis; quinone compound having excellent transporting ability suitable for use in electrophotog. photosensitive body and organic electroluminescent device)
RN 943977-33-1 CAPLUS
CN Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[4'-[2-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]hydrazinyl]-2,2'-dibromo[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)

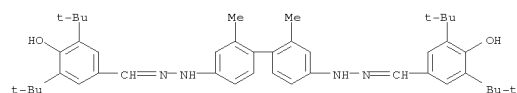


RN 943977-34-2 CAPLUS
CN Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[4'-[2-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]hydrazinyl]-2,2'-tetrachloro[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)

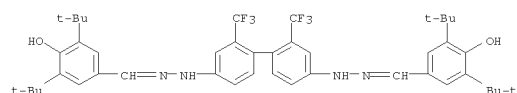


L10 ANSWER 8 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

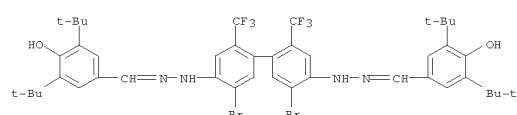
RN 943977-35-3 CAPLUS
CN Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2-[4'-(2-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]hydrazinyl]-2,2'-dimethyl[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



RN 943977-36-4 CAPLUS
CN Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2-[4'-(2-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]hydrazinyl]-2,2'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



RN 943977-37-5 CAPLUS
CN Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2-[4'-(2-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]hydrazinyl]-5,5'-dibromo-2,2'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

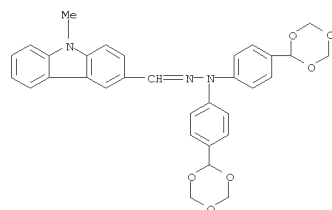
L10 ANSWER 9 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:212578 CAPLUS
DOCUMENT NUMBER: 142:269164
TITLE: Electrophotographic photoreceptors having excellent mechanical strength and electric properties
INVENTOR(S): Daichi, Atsushi; Kikuchi, Norihiro
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005062301	A	20050310	JP 2003-289711	20030808
PRIORITY APPLN. INFO.:			JP 2003-289711	20030808

OTHER SOURCE(S): MARPAT 142:269164
AB The photoreceptors have photoconductive surface layers containing chain-polymerized and -nonpolymerizable the 1st and the 2nd charge-transporting compds. A and B at A/B (weight) 100:(5.0-45.0). The 1st charge-transporting compds. may be PlAa(ZP2d)b (A = charge-transporting group; Pl, P2 = chain-polymerizable functional group; a, b, d = 0, ≥1; a + b + d ≥1). The 2nd charge-transporting compds. may be triarylamines. The photoreceptors exhibit low ghost level initially and after prescribed durability test and excellent scratch resistance.
IT 845882-61-3P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(outermost layers, charge transporting materials; electrophotog. photoreceptors having cured charge-transporting outermost layers with good scratch resistance)
RN 845882-61-3 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-, bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone, homopolymer (9CI) (CA INDEX NAME)
CM 1
CRN 845882-60-2
CMF C32 H29 N3 O6

L10 ANSWER 9 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

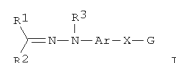


L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:857547 CAPLUS
DOCUMENT NUMBER: 141:350174
TITLE: Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivatives as inhibitors of agglutination and/or deposition of an amyloid protein or amyloid-like protein
INVENTOR(S): Kawagoe, Keiichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Nobuyuki; Chen, Chun-Jen; Mimura, Tetsuya
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 236 pp.
CODEN: PIXKD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087641	A1	20041014	WO 2004-JP4607	20040331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2521056	A1	20041014	CA 2004-2521056	20040331
EP 1612204	A1	20060104	EP 2004-724752	20040331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
US 20060276433	A1	20061207	US 2005-551414	20050930
PRIORITY APPLN. INFO.:			JP 2003-94257	A 20030331
			WO 2004-JP4607	W 20040331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:350174
GI



AB Compds. represented by the general formula (I), salts thereof, or solvates
of either[R1, R2 = H, alkyl, alkenyl, alkynyl, aralkyl, NH2, alkylamino, cyano, halo, haloalkyl, haloalkenyl, haloalkynyl, CO2H, alkoxycarbonyl, CONH2, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, N-hydroxyalkylcarbamoyl, each (un)substituted aryl, (un)saturated 5- to 7-membered heterocyclyl, (un)saturated bi- or tricyclic condensed heterocyclyl, arylalkenyl, (un)saturated

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

heterocyclylalkenyl, or (un)satd. bi- or tricyclic condensed heterocyclylalkenyl; R3 = H, (un)substituted alkyl, acyl, alkoxy carbonyl; Ar = a divalent group derived from arom. hydrocarbon, (un)satd. 5- to 7-membered heterocyclic group, or (un)satd. bi- or tricyclic condensed heterocyclic group; X = a single bond, a single bond, each (un)substituted linear or branched C1-3 alkylene, C1-3 alkenylene, or C1-3 alkynylene,

CO;

G = halo, haloalkyl, haloalkenyl, haloalkynyl, alkoxy, alkoxy carbonyl, N-alkylamino, N,N-dialkylamino, each (un)substituted (un)satd. bi- or tricyclic condensed hydrocarbyl, (un)satd. 5- to 7-membered heterocyclyl, or (un)satd. bi- or tricyclic heterocyclyl] are prepd. Also disclosed is (I) an agent for inhibiting the agglutination and/or deposition of an amyloid protein or amyloid-like protein or (2) a preventive and/or remedy for conformational diseases or diseases caused by amyloid accumulation, which contains the compd. I, its salt, or solvate thereof. In particular, disclosed is a preventive and/or remedy for Alzheimer's disease, Down's syndrome, Creutzfeldt-Jakob disease, type II diabetes, dialysis amyloidosis, AA amyloidosis, Gerstmann-Straussler-Scheinker (GSS) syndrome, Muckle-Wells syndrome, localized atrial amyloidosis, thyroid medullary carcinoma, skin amyloidosis, localized tuberous amyloidosis, AL amyloidosis, AH amyloidosis, familial Mediterranean fever, Parkinson's disease, tauopathy, ALS, or CAG repeat disease. A radiodiagnostic agent contg. radionuclide-labeled, in particular radioactive iodine-labeled compd. I is also disclosed. Thus, 1.0 g 4-(oxazol-5-yl)phenylhydrazine and 0.61 g 4-pyridinecarboxaldehyde were heated in ethanol at reflux overnight to give, after recrystn. from ethanol, 1.03 g 4-pyridinecarboxaldehyde N-[4-(oxazol-5-yl)phenyl]hydrazine (II). II inhibited the formation of amyloid from amyloid β protein with IC50 of 2.94 μ M vs. 0.87 and 3.23 μ M for Congo Red and 2-(1,1-dicyanopropen-2-yl)-6-dimethylaminonaphthalene (DDNP), resp.

IT 774236-55-4P 774236-96-3P 774237-38-6P

774237-62-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

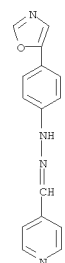
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs.

as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-55-4 CAPLUS

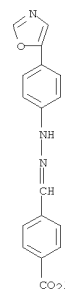
CN 4-Pyridinecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 774236-96-3 CAPLUS

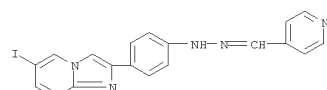
CN Benzoic acid, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-38-6 CAPLUS

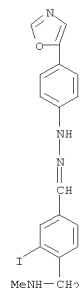
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 774237-62-6 CAPLUS

CN Benzaldehyde, 3-iodo-4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



IT 774236-53-2P 774236-54-3P 774236-56-5P

774236-57-6P 774236-58-7P 774236-59-8P

774236-60-1P 774236-63-4P 774236-64-5P

774236-65-6P 774236-66-7P 774236-67-8P

774236-68-9P 774236-69-0P 774236-70-3P

774236-71-4P 774236-72-5P 774236-73-6P

774236-74-7P 774236-75-8P 774236-78-1P

774236-79-2P 774236-81-6P 774236-82-7P

774236-84-9P 774236-85-0P 774236-86-1P

774236-87-2P 774236-88-3P 774236-89-4P

774236-90-7P 774236-91-8P 774236-92-9P

774236-93-0P 774236-94-1P 774236-95-2P

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774237-19-3P 774237-20-6P 774237-21-7P

774237-22-8P 774237-23-9P 774237-24-0P

774237-25-1P 774237-26-2P 774237-27-3P

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

774237-28-4P 774237-29-5P 774237-30-8P

774237-31-9P 774237-32-0P 774237-33-1P

774237-34-2P 774237-35-3P 774237-36-4P

774237-37-5P 774237-39-7P 774237-47-7P

774237-48-8P 774237-49-9P 774237-50-2P

774237-51-3P 774237-52-4P 774237-53-5P

774237-54-6P 774237-55-7P 774237-56-8P

774237-57-9P 774237-58-0P 774237-59-1P

774237-60-4P 774237-61-5P 774237-63-7P

774237-64-8P 774237-65-9P 774237-66-0P

774237-67-1P 774237-68-2P 774237-69-3P

774237-70-6P 774237-71-7P 774237-72-8P

774237-73-9P 774237-74-0P 774237-75-1P

774237-76-2P 774237-86-4P 774237-87-5P

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774238-01-6P 774238-02-7P 774238-03-8P

774238-04-9P 774238-05-0P 774238-06-1P

774238-07-2P 774238-08-3P 774238-09-4P

774238-10-7P 774238-11-8P 774238-12-9P

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774238-16-3P 774238-17-4P 774238-18-5P

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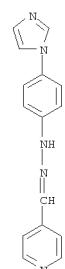
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs.

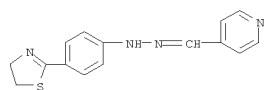
as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-53-2 CAPLUS

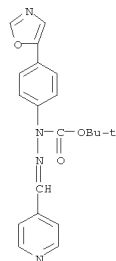
CN 4-Pyridinecarboxaldehyde, 2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 RN 774236-54-3 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(4,5-dihydro-2-thiazolyl)phenyl]hydrazone
 (CA INDEX NAME)

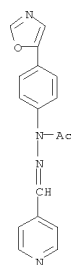


RN 774236-56-5 CAPLUS
 CN Hydrazinecarboxylic acid, 1-[4-(5-oxazolyl)phenyl]-2-(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)

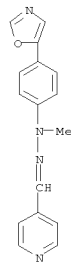


RN 774236-57-6 CAPLUS
 CN Acetic acid, 1-[4-(5-oxazolyl)phenyl]-2-(4-pyridinylmethylene)hydrazide
 (CA INDEX NAME)

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

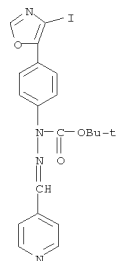


RN 774236-58-7 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-methyl-2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

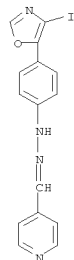


RN 774236-59-8 CAPLUS
 CN Hydrazinecarboxylic acid, 1-[4-(4-iodo-5-oxazolyl)phenyl]-2-(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)

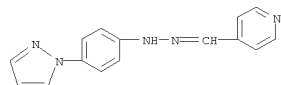
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



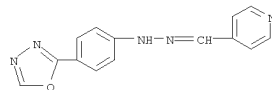
RN 774236-60-1 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(4-iodo-5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



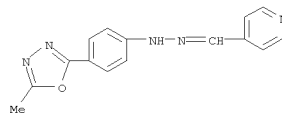
RN 774236-63-4 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(1H-pyrazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



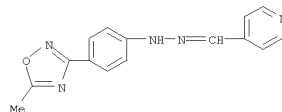
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 RN 774236-64-5 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(1,3,4-oxadiazol-2-yl)phenyl]hydrazone
 (CA INDEX NAME)



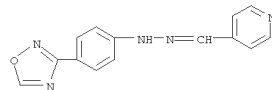
RN 774236-65-6 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-66-7 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

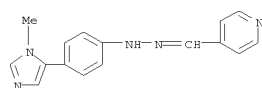


RN 774236-67-8 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(1,2,4-oxadiazol-3-yl)phenyl]hydrazone
 (CA INDEX NAME)

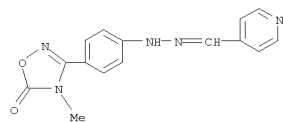


RN 774236-68-9 CAPLUS

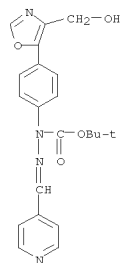
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 CN 4-Pyridinecarboxaldehyde,
 2-[4-(1-methyl-1H-imidazol-5-yl)phenyl]hydrazone
 (CA INDEX NAME)



RN 774236-69-0 CAPLUS
 CN 4-Pyridinecarboxaldehyde,
 2-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

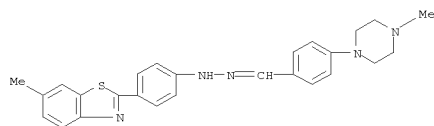


RN 774236-70-3 CAPLUS
 CN Hydrazinecarboxylic acid,
 1-[4-[4-(hydroxymethyl)-5-oxazolyl]phenyl]-2-(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)

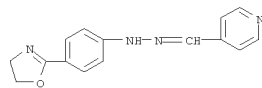


RN 774236-71-4 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-[4-(hydroxymethyl)-5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

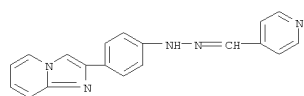
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



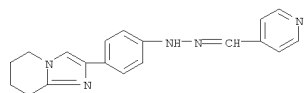
RN 774236-75-8 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(4,5-dihydro-2-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-78-1 CAPLUS
 CN 4-Pyridinecarboxaldehyde,
 2-(4-imidazo[1,2-a]pyridin-2-ylphenyl)hydrazone (CA INDEX NAME)

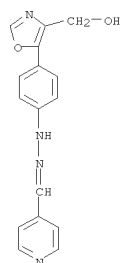


RN 774236-79-2 CAPLUS
 CN 4-Pyridinecarboxaldehyde,
 2-[4-(5,6,7,8-tetrahydroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)

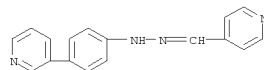


RN 774236-81-6 CAPLUS
 CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

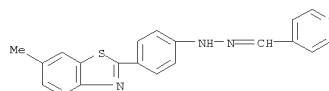
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 774236-72-5 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)

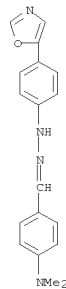


RN 774236-73-6 CAPLUS
 CN 4-Pyridinecarboxaldehyde,
 2-[4-(6-methyl-2-benzothiazolyl)phenyl]hydrazone (CA INDEX NAME)

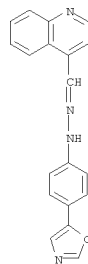


RN 774236-74-7 CAPLUS
 CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-[4-(6-methyl-2-benzothiazolyl)phenyl]hydrazone (CA INDEX NAME)

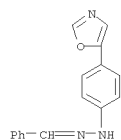
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



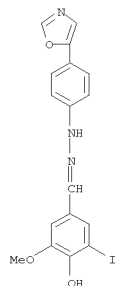
RN 774236-82-7 CAPLUS
 CN 4-Quinolinecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



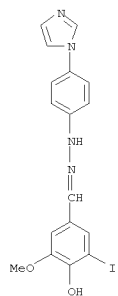
RN 774236-84-9 CAPLUS
 CN Benzaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



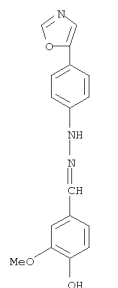
RN 774236-85-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



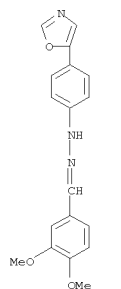
RN 774236-86-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



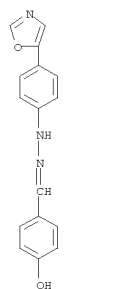
RN 774236-87-2 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone
(CA INDEX NAME)



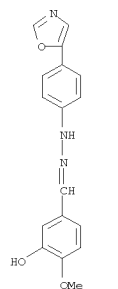
RN 774236-88-3 CAPLUS
CN Benzaldehyde, 3,4-dimethoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA
INDEX NAME)



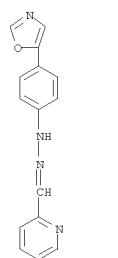
RN 774236-89-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX
NAME)



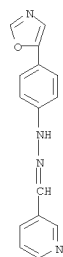
RN 774236-90-7 CAPLUS
CN Benzaldehyde, 3-hydroxy-4-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone
(CA INDEX NAME)



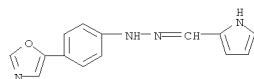
RN 774236-91-8 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX
NAME)



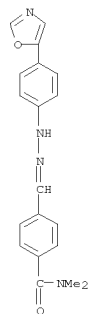
RN 774236-92-9 CAPLUS
CN 3-Pyridinecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX
NAME)



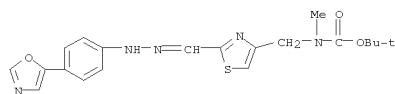
RN 774236-93-0 CAPLUS
CN 1H-Pyrrole-2-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



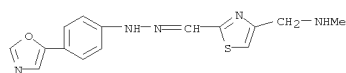
RN 774236-94-1 CAPLUS
CN Benzaldehyde, 4-[(2-hydroxyethyl)methylamino]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



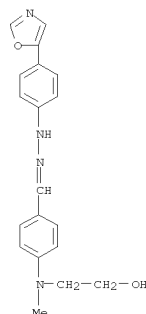
RN 774236-99-6 CAPLUS
CN Carbamic acid, methyl[[2-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



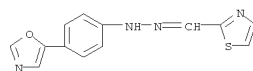
RN 774237-00-2 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



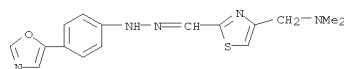
RN 774237-01-3 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(dimethylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



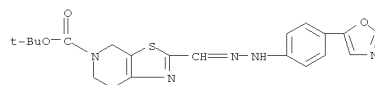
RN 774236-95-2 CAPLUS
CN 2-Thiazolecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



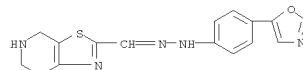
RN 774236-97-4 CAPLUS
CN Benzamide, N,N-dimethyl-4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



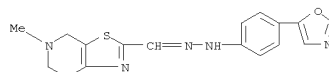
RN 774237-02-4 CAPLUS
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 6,7-dihydro-2-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



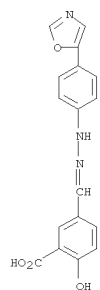
RN 774237-03-5 CAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxaldehyde, 4,5,6,7-tetrahydro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



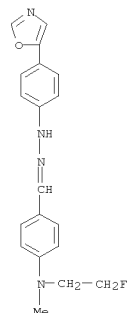
RN 774237-04-6 CAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxaldehyde, 4,5,6,7-tetrahydro-5-methyl-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-05-7 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

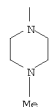


RN 774237-06-8 CAPLUS
CN Benzaldehyde, 4-[(2-fluoroethyl)methylamino]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



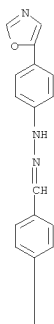
RN 774237-07-9 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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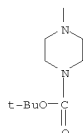


RN 774237-09-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[(2-[4-(5-oxazolyl)phenyl]hydrazinylidene)methyl]phenyl]-, 1,1-dimethylethyl ester
(CA INDEX NAME)

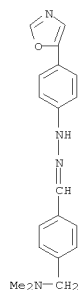
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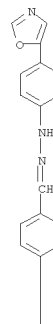


RN 774237-10-4 CAPLUS

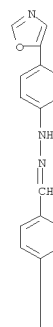


RN 774237-08-0 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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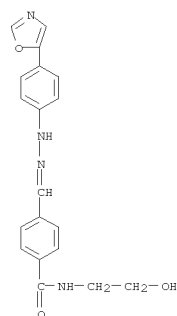
PAGE 1-A



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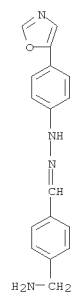
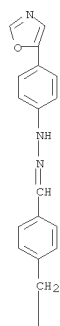


RN 774237-11-5 CAPLUS
CN Benzamide, N-(2-hydroxyethyl)-4-[(2-[4-(5-oxazolyl)phenyl]hydrazinylidene)methyl]- (CA INDEX NAME)

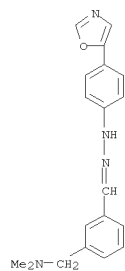


RN 774237-12-6 CAPLUS
CN Benzaldehyde, 4-(4-morpholinylmethyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone
(CA INDEX NAME)

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RN 774237-15-9 CAPLUS
CN Benzaldehyde, 3-[(dimethylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

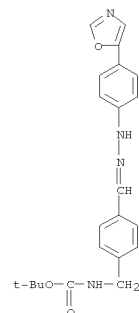


RN 774237-16-0 CAPLUS
CN Benzaldehyde, 2-[(dimethylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

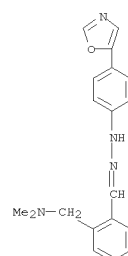
PAGE 2-A



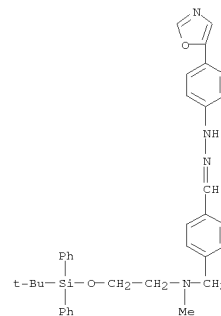
RN 774237-13-7 CAPLUS
CN Carbamic acid,
[[4-[[[4-(5-oxazolyl)phenyl]hydrazone]methyl]phenyl]methyl]-
, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



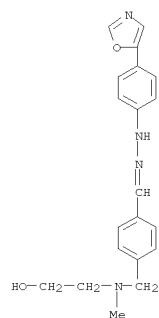
RN 774237-14-8 CAPLUS
CN Benzaldehyde, 4-(aminomethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA
INDEX NAME)



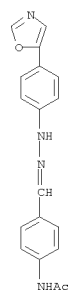
RN 774237-17-1 CAPLUS
CN Benzaldehyde, 4-[[[2-[[[(1,1-
dimethylethyl)diphenylsilyl]oxy]ethyl]methylamino]methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



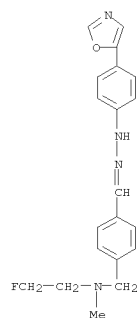
RN 774237-18-2 CAPLUS
CN Benzaldehyde, 4-[[[(2-hydroxyethyl)methylamino]methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



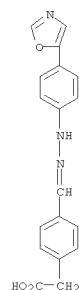
RN 774237-19-3 CAPLUS
 CN Acetamide,
 N-[4-([2-[4-(5-oxazolyl)phenyl]hydrazinylidene)methyl]phenyl]-
 (CA INDEX NAME)



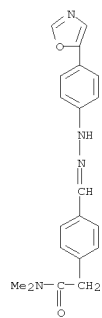
RN 774237-20-6 CAPLUS
 CN Benzaldehyde, 4-[(2-fluoroethyl)methylamino]methyl]-,
 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-21-7 CAPLUS
 CN Benzeneacetic acid, 4-([2-[4-(5-oxazolyl)phenyl]hydrazinylidene)methyl]-
 (CA INDEX NAME)

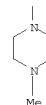
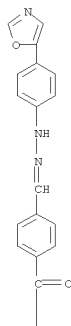


RN 774237-22-8 CAPLUS
 CN Benzeneacetic acid, N,N-dimethyl-4-([2-[4-(5-oxazolyl)phenyl]hydrazinylidene)methyl]-
 (CA INDEX NAME)

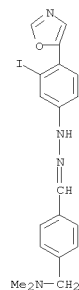


RN 774237-23-9 CAPLUS
 CN Benzaldehyde, 4-[(4-methyl-1-piperazinyl)carbonyl]-,
 1-[2-[4-(5-oxazolyl)phenyl]hydrazone] (CA INDEX NAME)

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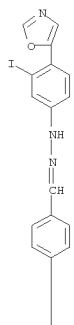


RN 774237-24-0 CAPLUS
 CN Benzaldehyde, 4-[(dimethylamino)methyl]-,
 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

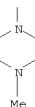


RN 774237-25-1 CAPLUS
 CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-,
 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

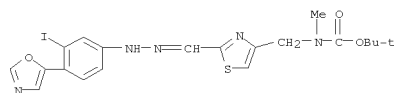
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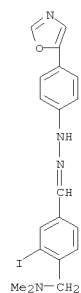


RN 774237-26-2 CAPLUS
 CN Carbamic acid, [[2-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

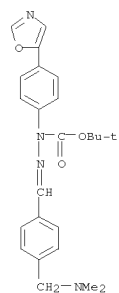


RN 774237-27-3 CAPLUS
 CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

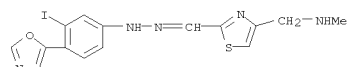
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 CN Benzaldehyde, 4-[(dimethylamino)methyl]-3-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



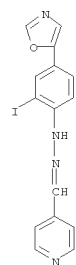
RN 774237-31-9 CAPLUS
 CN Hydrazinecarboxylic acid, 2-[[4-[(dimethylamino)methyl]phenyl]methylene]-1-[4-(5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



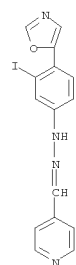
RN 774237-32-0 CAPLUS
 CN Hydrazinecarboxylic acid, 2-[[4-[(dimethylamino)methyl]phenyl]methylene]-1-[4-(4-iodo-5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



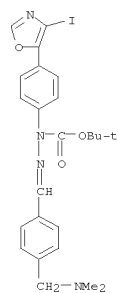
RN 774237-28-4 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[2-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



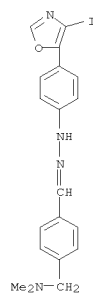
RN 774237-29-5 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



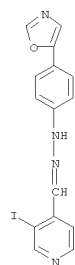
RN 774237-30-8 CAPLUS



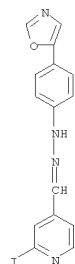
RN 774237-33-1 CAPLUS
 CN Benzaldehyde, 4-[(dimethylamino)methyl]-, 2-[4-(4-iodo-5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



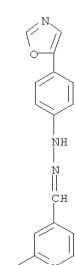
RN 774237-34-2 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 3-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



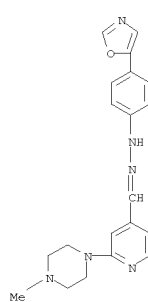
RN 774237-35-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



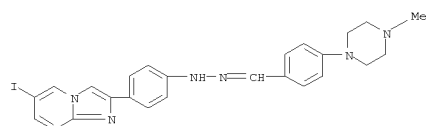
RN 774237-36-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



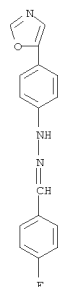
RN 774237-37-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-methyl-1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



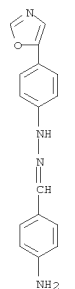
RN 774237-39-7 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



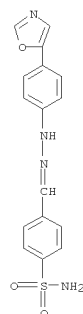
RN 774237-47-7 CAPLUS
CN Benzaldehyde, 4-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



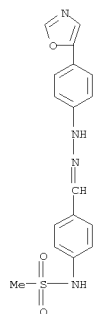
RN 774237-48-8 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



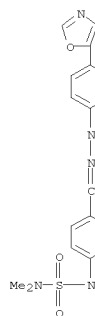
RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



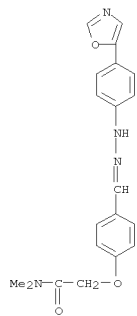
RN 774237-50-2 CAPLUS
CN Methanesulfonamide, N-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



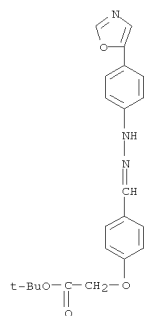
RN 774237-51-3 CAPLUS
CN Sulfamide, N,N-dimethyl-N'-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



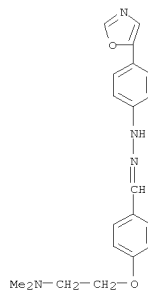
RN 774237-52-4 CAPLUS
CN Benzaldehyde, 4-[2-(dimethylamino)ethoxy]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



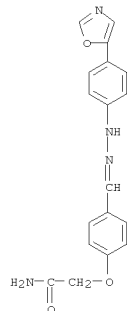
RN 774237-55-7 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)



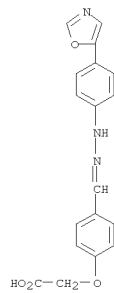
RN 774237-56-8 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



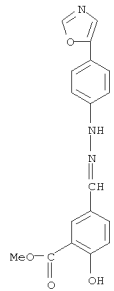
RN 774237-53-5 CAPLUS
CN Acetamide, 2-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



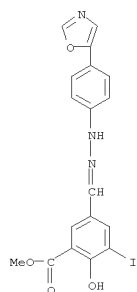
RN 774237-54-6 CAPLUS
CN Acetamide, N,N-dimethyl-2-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



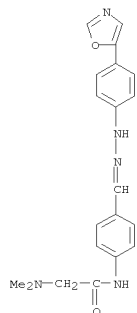
RN 774237-57-9 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



RN 774237-58-0 CAPLUS
CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



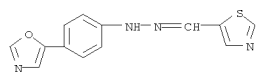
RN 774237-59-1 CAPLUS
CN Acetamide, 2-(dimethylamino)-N-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



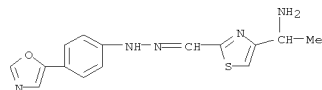
RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



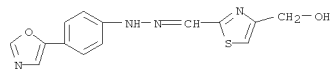
RN 774237-63-7 CAPLUS
CN 5-Thiazolecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



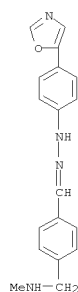
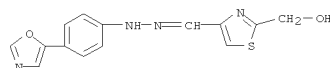
RN 774237-64-8 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(1-aminoethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



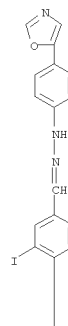
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CN 2-Thiazolecarboxaldehyde, 4-(hydroxymethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



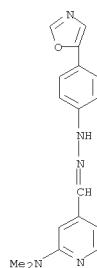
RN 774237-66-0 CAPLUS
CN 4-Thiazolecarboxaldehyde, 2-(hydroxymethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



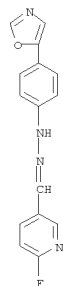
RN 774237-61-5 CAPLUS
CN Benzaldehyde, 3-iodo-4-(1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-67-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(dimethylamino)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

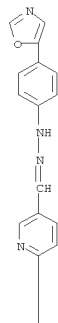


RN 774237-68-2 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



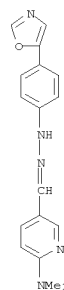
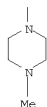
RN 774237-69-3 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-(4-methyl-1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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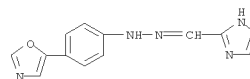


RN 774237-70-6 CAPLUS
 CN 3-Pyridinecarboxaldehyde, 6-(dimethylamino)-,
 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

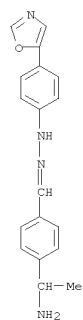
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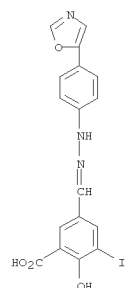
RN 774237-71-7 CAPLUS
 CN 1H-Imidazole-2-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



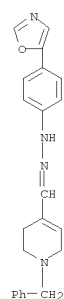
RN 774237-72-8 CAPLUS
 CN Benzaldehyde, 4-(1-aminoethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



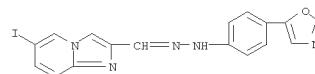
RN 774237-73-9 CAPLUS
 CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-74-0 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 1,2,3,6-tetrahydro-1-(phenylmethyl)-,
 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

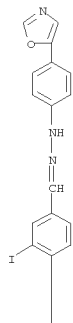


RN 774237-75-1 CAPLUS
 CN Imidazo[1,2-a]pyridine-2-carboxaldehyde, 6-iodo-,
 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

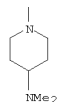


RN 774237-76-2 CAPLUS
 CN Benzaldehyde, 4-[4-(dimethylamino)-1-piperidinyl]-3-iodo-,
 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

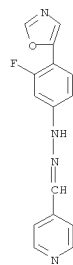
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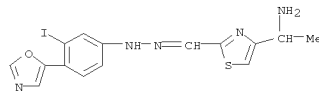
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RN 774237-86-4 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[3-fluoro-4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

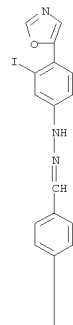


RN 774237-87-5 CAPLUS
 CN 2-Thiazolecarboxaldehyde, 4-(1-aminoethyl)-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



RN 774237-88-6 CAPLUS
 CN Benzaldehyde, 4-(1-piperazinyl)-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

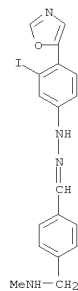
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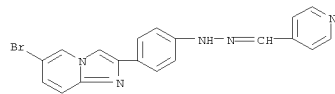
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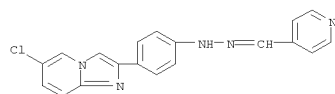
RN 774237-89-7 CAPLUS
 CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



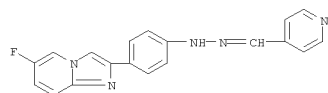
RN 774237-90-0 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(6-bromoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazide (CA INDEX NAME)



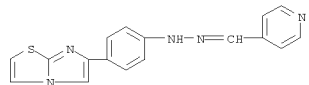
RN 774237-91-1 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazide (CA INDEX NAME)



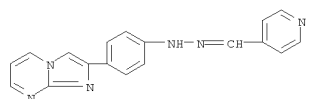
RN 774237-92-2 CAPLUS
 CN 4-Pyridinecarboxaldehyde, 2-[4-(6-fluoroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazide (CA INDEX NAME)



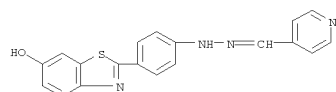
RN 774237-93-3 CAPLUS
CN 4-Pyridinecarboxaldehyde,
2-[(4-imidazo[2,1-b]thiazol-6-ylphenyl)hydrazone
(CA INDEX NAME)



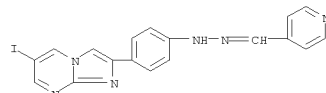
RN 774237-94-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[(4-imidazo[1,2-a]pyrimidin-2-ylphenyl)hydrazone (CA INDEX NAME)



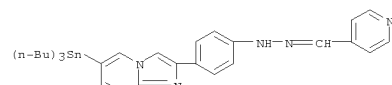
RN 774237-95-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[(4-(6-hydroxy-2-benzothiazolyl)phenyl)hydrazone (CA INDEX NAME)



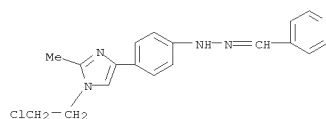
RN 774237-96-6 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[(4-(6-iodoimidazo[1,2-a]pyrimidin-2-yl)phenyl)hydrazone (CA INDEX NAME)



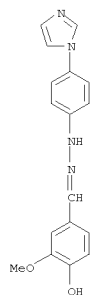
RN 774237-97-7 CAPLUS
CN 4-Pyridinecarboxaldehyde,
2-[(4-[6-(tributylstannyl)imidazo[1,2-a]pyridin-2-yl]phenyl)hydrazone (CA INDEX NAME)



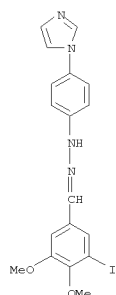
RN 774237-99-9 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[(4-[1-(2-chloroethyl)-2-methyl-1H-imidazol-4-yl]phenyl)hydrazone (CA INDEX NAME)



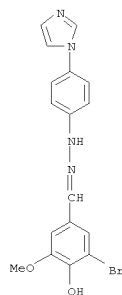
RN 774238-00-5 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-,
2-[(4-(1H-imidazol-1-yl)phenyl)hydrazone (CA INDEX NAME)



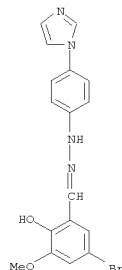
RN 774238-01-6 CAPLUS
CN Benzaldehyde, 3-iodo-4,5-dimethoxy-,
2-[(4-(1H-imidazol-1-yl)phenyl)hydrazone (CA INDEX NAME)



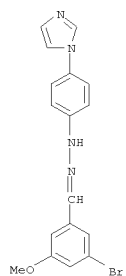
RN 774238-02-7 CAPLUS
CN Benzaldehyde, 3-bromo-4-hydroxy-5-methoxy-,
2-[(4-(1H-imidazol-1-yl)phenyl)hydrazone (CA INDEX NAME)



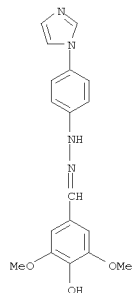
RN 774238-03-8 CAPLUS
CN Benzaldehyde, 5-bromo-2-hydroxy-3-methoxy-,
2-[(4-(1H-imidazol-1-yl)phenyl)hydrazone (CA INDEX NAME)



RN 774238-04-9 CAPLUS
CN Benzaldehyde, 3-bromo-5-methoxy-,
2-[(4-(1H-imidazol-1-yl)phenyl)hydrazone (CA INDEX NAME)

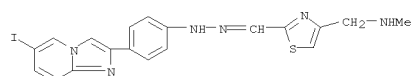


RN 774238-05-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy-, 2-[4-(1H-imidazol-1-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)

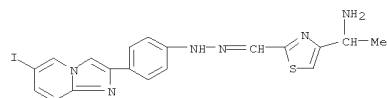


RN 774238-06-1 CAPLUS
CN Benzaldehyde, 3,4-dihydroxy-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)

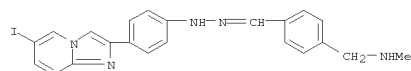
RN 774238-10-7 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



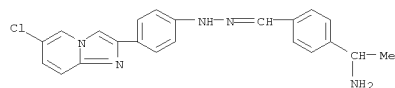
RN 774238-11-8 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(1-aminoethyl)-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



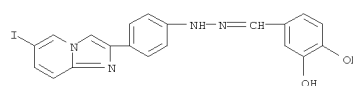
RN 774238-12-9 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



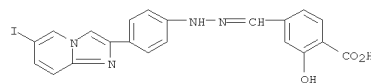
RN 774238-13-0 CAPLUS
CN Benzaldehyde, 4-(1-aminoethyl)-, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



RN 774238-14-1 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]- (CA INDEX NAME)

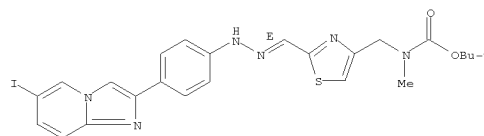


RN 774238-07-2 CAPLUS
CN Benzoic acid, 2-hydroxy-4-[[2-[(E)-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazonylidene]methyl]- (CA INDEX NAME)



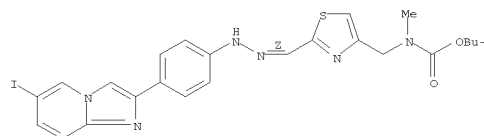
RN 774238-08-3 CAPLUS
CN Carbamic acid, [[2-[(E)-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

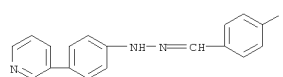


RN 774238-09-4 CAPLUS
CN Carbamic acid, [[2-[(Z)-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

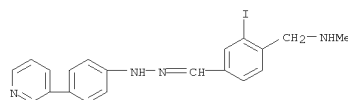
Double bond geometry as shown.



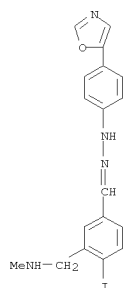
RN 774238-15-2 CAPLUS
CN Benzaldehyde, 4-iodo-, 2-[4-(3-pyridinyl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



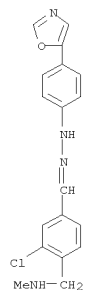
RN 774238-16-3 CAPLUS
CN Benzaldehyde, 3-iodo-4-[(methylamino)methyl]-, 2-[4-(3-pyridinyl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



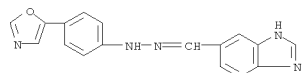
RN 774238-17-4 CAPLUS
CN Benzaldehyde, 4-iodo-3-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazono]methyl]- (CA INDEX NAME)



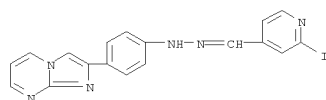
RN 774238-18-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-[(methylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



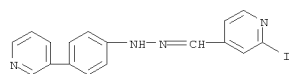
RN 774238-19-6 CAPLUS
CN Benzaldehyde, 3-fluoro-4-[(methylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



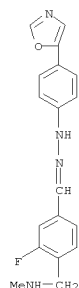
RN 774238-29-8 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-,
2-(4-imidazo[1,2-a]pyrimidin-2-ylphenyl)hydrazone (CA INDEX NAME)



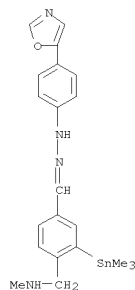
RN 774238-30-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-, 2-[4-(3-pyridinyl)phenyl]hydrazone
(CA INDEX NAME)



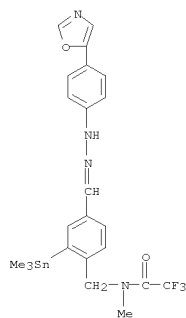
IT 774239-49-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone
derivs.
as inhibitors of agglutination and/or deposition of amyloid protein or
amyloid-like protein)
RN 774239-49-5 CAPLUS
CN Acetamide, 2,2,2-trifluoro-N-methyl-N-[[4-[[2-[4-(5-
oxazolyl)phenyl]hydrazinylidene]methyl]-2-(trimethylstannyl)phenyl]methyl]-
(CA INDEX NAME)



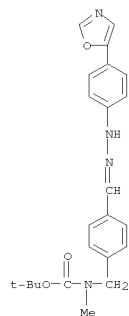
RN 774238-20-9 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-3-(trimethylstannyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-21-0 CAPLUS
CN 1H-Benzimidazole-6-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA
INDEX NAME)

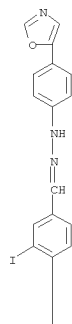


IT 774238-91-4P 774238-95-8P 774239-02-0P
774239-12-2P 774239-21-3P 774239-22-4P
774239-31-5P 774239-32-6P 774239-38-2P
774239-47-3P 774239-57-5P 774239-58-6P
774239-59-7P 774239-63-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone
derivs.
as inhibitors of agglutination and/or deposition of amyloid protein or
amyloid-like protein)
RN 774238-91-4 CAPLUS
CN Carbamic acid, methyl[[4-[[[4-(5-
oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester
(9CI) (CA INDEX NAME)

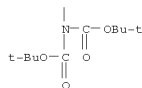


RN 774238-95-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[2-iodo-4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester
(CA INDEX NAME)

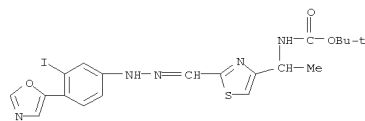
PAGE 1-A



PAGE 2-A

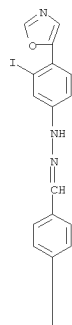


RN 774239-21-3 CAPLUS
CN Carbanic acid, [1-[2-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]-4-thiazolyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

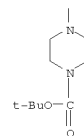


RN 774239-22-4 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[[2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester
(CA INDEX NAME)

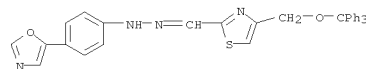
PAGE 1-A



PAGE 2-A

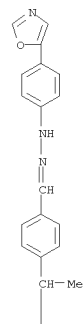


RN 774239-02-0 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(triphenylmethoxy)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

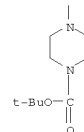


RN 774239-12-2 CAPLUS
CN Imidazolecarboxylic acid, 2-[1-[4-[2-[4-(5-oxazolonyl)phenyl]hydrazinylidene]methyl]phenyl]ethyl]-, 1,3-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

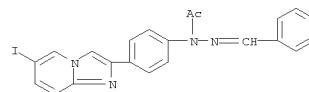
PAGE 1-A



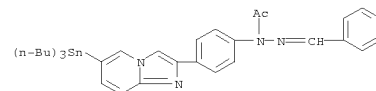
PAGE 2-A



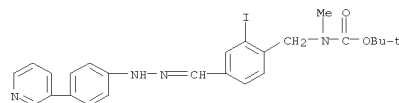
RN 774239-31-5 CAPLUS
CN Acetic acid, 1-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]-2-(4-pyridinylmethylene)hydrazide (CA INDEX NAME)



RN 774239-32-6 CAPLUS
CN Acetic acid,
2-(4-pyridinylmethylene)-1-[4-[6-(tributylstannyl)imidazo[1,2-
a]pyridin-2-yl]phenyl]hydrazide (CA INDEX NAME)

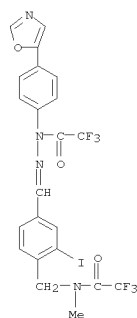


RN 774239-38-2 CAPLUS
CN Carbamic acid, [[2-iodo-4-[[[4-(3-pyridinyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

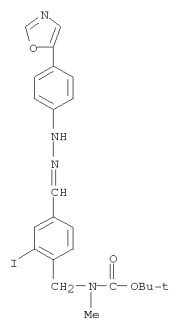


RN 774239-47-3 CAPLUS

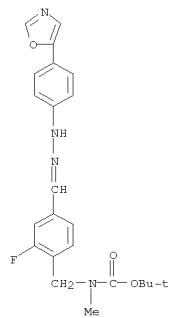
L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 CN Acetic acid, 2,2,2-trifluoro-, 2-[[3-iodo-4-[[methyl(2,2,2-trifluoroacetyl)amino]methyl]phenyl]methylene]-1-[4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



RN 774239-57-5 CAPLUS
 CN Carbamic acid, [[2-iodo-4-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

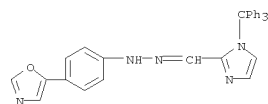


L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

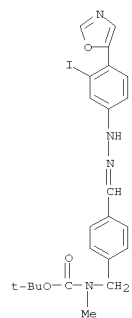


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (8 CITINGS)
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L10 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 RN 774239-58-6 CAPLUS
 CN 1H-Imidazole-2-carboxaldehyde, 1-(triphenylmethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazono (CA INDEX NAME)

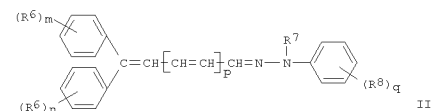
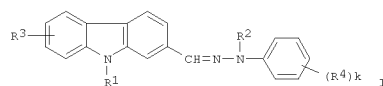


RN 774239-59-7 CAPLUS
 CN Carbamic acid, [[4-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



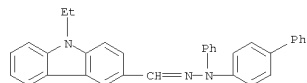
RN 774239-63-3 CAPLUS
 CN Carbamic acid, [[2-fluoro-4-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 11 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:451039 CAPLUS
 DOCUMENT NUMBER: 141:14438
 TITLE: Electrophotographic photoreceptors with low residual potential, process cartridges, and electrophotographic apparatus
 INVENTOR(S): Yoshimura, Kimihiro; Morikawa, Yosuke; Nakata, Koichi;
 Saito, Hiroshi
 PATENT ASSIGNEE(S): Canon Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2004157150 A 20040603 JP 2002-319831 20021101
 PRIORITY APPLN. INFO.: JP 2002-319831 20021101
 OTHER SOURCE(S): MARPAT 141:14438
 GI



AB The photoreceptors have photosensitive layers including charge-generating layers and charge-transporting layers containing I (R1 = alkyl, cycloalkyl, aralkyl, aryl; R2 = alkyl, aralkyl, aryl, heterocyclic ring; R3 = H, halo, alkyl, aralkyl, aryl, alkoxy, substituted amino group; R4 = halo, alkyl, aralkyl, aryl, alkoxy, substituted amino group; k = 0-5) and/or II (R5, R6 = halo, alkyl, aralkyl, aryl, alkoxy, substituted amino group; R7 = alkyl, aralkyl, aryl, heterocyclic ring; R8 = halo, alkyl, aralkyl, aryl, alkoxy,

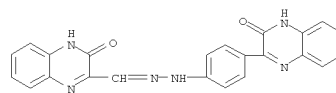
L10 ANSWER 11 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
substituted amino group; m, n = 0-5; p = 0, 1; q = 0-5) on
electroconductive substrates, and protective layers contg. arom.
thermosetting resin binders. The protective layers are formed on the
photoresceptors without crack formation and deposition of
charge-transporting materials.
IT 261725-66-0
RL: DEV (Device component use); USES (Uses)
(charge-transporting material; electrophotog. photoreceptors with low
residual potential having aromatic thermosetting resin protective
layers)
RN 261725-66-0 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-ethyl-,
2-[1,1'-biphenyl]-4-yl-2-phenylhydrazone (CA INDEX NAME)



L10 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:395123 CAPLUS
DOCUMENT NUMBER: 141:89064
TITLE: The synthesis of some polycyclic N-H acids with
quinoxaline and [1,2,4]triazines
AUTHOR(S): Wiedermannova, Iveta; Otyepka, Michal; Styskala,
Jakub; Slouka, Jan
CORPORATE SOURCE: Dep. Org. Chem., Palacky Univ., Olomouc, 771 46,
Czech
Rep.
SOURCE: ARKIVOC (Gainesville, FL, United States) (2003),
(15),
65-74
CODEN: AGFUAR
URL: http://arkat-
usa.org/ark:/journal/2003/General_Part(xv)/03-
814B/814B.pdf
PUBLISHER: Arkat USA Inc.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:89064
GI

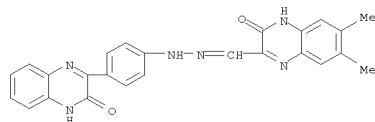
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 3-(2-Aminophenyl)- and 3-(2-aminobenzyl)-1,2-dihydroquinoxalin-2-ones
were
diazotized and the resulting diazonium salts were coupled with Et
cyanoacetylcarbamate or 3-methyl-1,2-dihydroquinoxalin-2-ones. In this
manner, the corresponding hydrazones with one 1,2-dihydroquinoxalin-2-one
ring and hydrazones with two 1,2-dihydroquinoxalin-2-one rings, e.g., I,
were obtained. Cyclization of hydrazones afforded compds. containing
6-azauracil and also 1,2-dihydroquinoxalin-2-one rings, e.g., II.
IT 713527-51-6P 713527-52-7P 713527-53-8P
713527-57-2P 713527-58-3P 713527-59-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of hydrazonebenzyl- and hydrazonephenylquinoxalinones via
diazotization of aminobenzyl- and aminophenylquinoxalinones followed
by
condensation with methylquinoxalinones)
RN 713527-51-6 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-3-oxo-,
2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxaliny)phenyl]hydrazone] (CA INDEX
NAME)

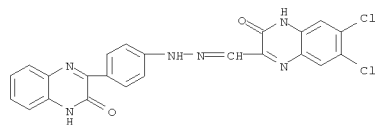


RN 713527-52-7 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-6,7-dimethyl-3-oxo-,
2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxaliny)phenyl]hydrazone] (CA INDEX
NAME)

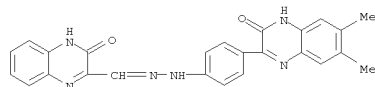
L10 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
NAME)



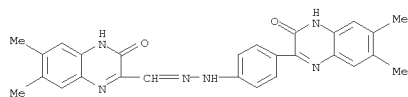
RN 713527-53-8 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 6,7-dichloro-3,4-dihydro-3-oxo-,
2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxaliny)phenyl]hydrazone] (CA INDEX
NAME)



RN 713527-57-2 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-3-oxo-,
2-[2-[4-(3,4-dihydro-6,7-dimethyl-3-oxo-2-quinoxaliny)phenyl]hydrazone]
(CA INDEX NAME)

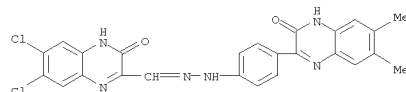


RN 713527-58-3 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-6,7-dimethyl-3-oxo-,
2-[2-[4-(3,4-dihydro-6,7-dimethyl-3-oxo-2-quinoxaliny)phenyl]hydrazone]
(CA INDEX NAME)



L10 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 713527-59-4 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 6,7-dichloro-3,4-dihydro-3-oxo-,
2-[2-[4-(3,4-dihydro-6,7-dimethyl-3-oxo-2-quinoxaliny)phenyl]hydrazone]
(CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR
THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 13 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

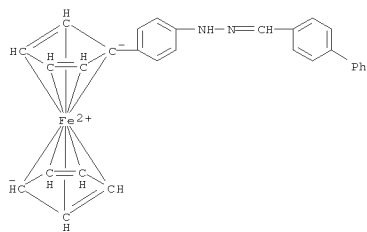
ACCESSION NUMBER: 2003:945539 CAPLUS
DOCUMENT NUMBER: 140:10705
TITLE: Optical disks capable of high-density recording/readout with blue lasers and amines
therefor
INVENTOR(S): Ishida, Tsutomu; Shiozaki, Hiroyuki; Ogiso, Akira; Koike, Masashi
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan; Yamamoto Chemicals Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003342487	A	20031203	JP 2002-153756	20020528
PRIORITY APPLN. INFO.:			JP 2002-153756	20020528

OTHER SOURCE(S): MARPAT 140:10705
AB The disks have ≥ 1 recording layers containing AlNHX1:X2A2 [A1, A2 = aryl, metallocenyl; A1 and/or A2 = metallocenyl(aryl); X1, X2 = N, methine] as recording dyes. The disks show good weather and heat moisture resistance.

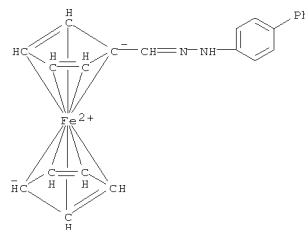
IT 628279-76-5 628280-20-6 628280-26-2
RL: TEM (Technical or engineered material use); USES (Uses)
(optical disks containing metallocenyl(aryl)amine dyes for high-d. recording/readout with blue lasers)

RN 628279-76-5 CAPLUS
CN Ferrocene, [4-[[[1,1'-biphenyl]-4-ylmethylene]hydrazino]phenyl]- (9CI) (CA INDEX NAME)

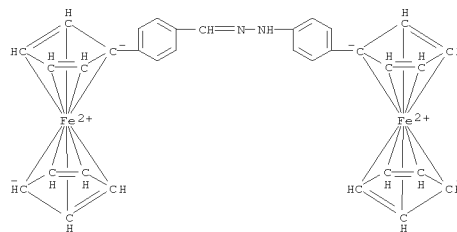


RN 628280-20-6 CAPLUS
CN Ferrocene, [[1,1'-biphenyl]-4-ylhydrazono)methyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 13 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

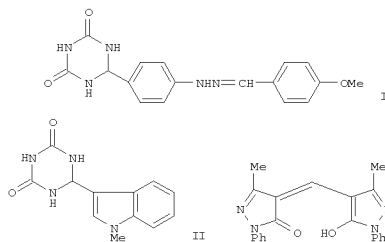


RN 628280-26-2 CAPLUS
CN Ferrocene, [4-[[[4-(ferrocenylphenyl)hydrazono]methyl]phenyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

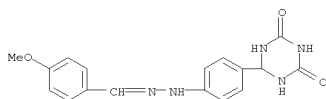
ACCESSION NUMBER: 2002:585557 CAPLUS
DOCUMENT NUMBER: 138:255201
TITLE: Reaction Products of 5-Azaauracil with Malonamide and Aromatic C-Nucleophiles
AUTHOR(S): Azev, Yu. A.; Shorshnev, S. V.; Gabel, D.
CORPORATE SOURCE: Ural Research Institute of Medicinal Preparation Technology, Yekaterinburg, Russia
SOURCE: Pharmaceutical Chemistry Journal (Translation of Khimiko-Farmatsevticheskii Zhurnal) (2002), 36(3), 146-150
CODEN: PCJOAU; ISSN: 0091-150X
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:255201
GI



AB Reactions of 5-azauracil with malonamide, 1,2-benzenediamine, 1,2,3-benzenetriol, resorcinol, phenylhydrazones, indoles, and pyrazolones were studied. Products such as I, II, and III were obtained.

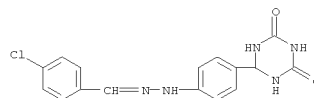
IT 429692-13-7P 429692-14-8P 429692-15-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction products of 5-azauracil with malonamide and aromatic C-nucleophiles)

RN 429692-13-7 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazono (CA INDEX NAME)

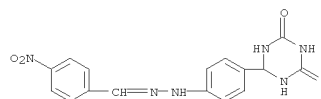


L10 ANSWER 14 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 429692-14-8 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazono (CA INDEX NAME)

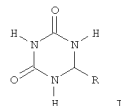


RN 429692-15-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazono (CA INDEX NAME)

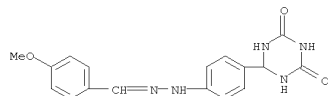


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L10 ANSWER 15 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:203284 CAPLUS
DOCUMENT NUMBER: 136:401730
TITLE: Stable α -adducts of 5-azauracil with C-nucleophiles
AUTHOR(S): Azev, Yuri A.; Shorshnev, Sergei V.; Gabel, Detlef
CORPORATE SOURCE: Urals Scientific Research Institute of Technology of Medical Preparations, Yekaterinburg, 620219, Russia
SOURCE: Mendeleev Communications (2001), (6), 234-235
CODEN: MENCEX; ISSN: 0959-9436
PUBLISHER: Russian Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:401730
GI



AB The heating of 5-azauracil with malonamide in butanol resulted in 6-(dicarbamoylmethyl)triazinedione I [R = (NH₂CO)₂CH]. Under conditions of acid catalysis, 5-azauracil reacted with α -phenylenediamine, pyrogallol, resorcinol, and phenylhydrazine derivs. to form the corresponding 6-derivs. of I.
IT 429692-13-7P 429692-14-8P 429692-15-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of stable α -adducts of 5-azauracil with C-nucleophiles)
RN 429692-13-7 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)

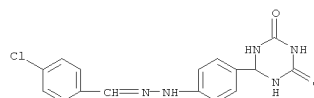


RN 429692-14-8 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)

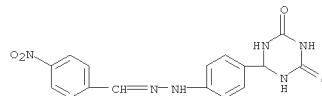
L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2001:693288 CAPLUS
DOCUMENT NUMBER: 135:242237
TITLE: Preparation of pyridazinylphenyl hydrazones useful against congestive heart failure
INVENTOR(S): Pystynen, Jarmo; Pippuri, Aino; Luiro, Anne; Nore, Pentti; Baekstroem, Reijo; Loomberg, Kari; Haikala, Heimo; Levijoki, Jouko; Kaheinen, Petri; Kaivola, Juha
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068611	A1	20010920	WO 2001-FI241	20010312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2403188	A1	20010920	CA 2001-2403188	20010312
AU 2001046577	A	20010924	AU 2001-46577	20010312
EP 1265871	A1	20021218	EP 2001-919489	20010312
EP 1265871	B1	20060208		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001009136	A	20021224	BR 2001-9136	20010312
HU 2003000177	A2	20030728	HU 2003-177	20010312
HU 2003000177	A3	20030929		
JP 2003527375	T	20030916	JP 2001-567705	20010312
NZ 521162	A	20031128	NZ 2001-521162	20010312
EE 2002000520	A	20040415	EE 2002-520	20010312
CN 1191241	C	20050302	CN 2001-806530	20010312
AT 317388	T	20060215	AT 2001-919489	20010312
ES 2256222	T3	20060716	ES 2001-919489	20010312
AU 2001246577	B2	20060831	AU 2001-246577	20010312
IL 151492	A	20070920	IL 2001-151492	20010312
SK 287163	B6	20100208	SK 2002-1288	20010312
ZA 2002006917	A	20030730	ZA 2002-6917	20020828
IN 2002KN01121	A	20050311	IN 2002-KN01121	20020902
IN 222462	A1	20080815		
NO 2002004247	A	20021025	NO 2002-4247	20020905
NO 324172	B1	20070903		
MX 2002008997	A	20030425	MX 2002-8997	20020913
BG 107175	A	20030530	BG 2002-107175	20021008
HR 2002000816	A2	20041231	HR 2002-816	20021011
US 20030158200	A1	20030821	US 2002-221348	20021226
US 6699868	B2	20040302		
HK 1052008	A1	20050527	HK 2003-104272	20030616
PRIORITY APPLN. INFO.:			FI 2000-577	A 20000313

L10 ANSWER 15 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



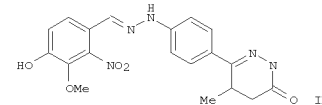
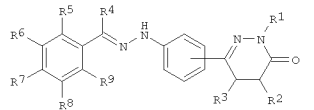
RN 429692-15-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
WO 2001-FI241 W 20010312

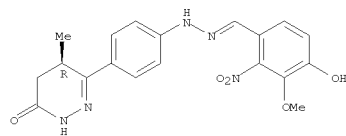
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 135:242237
GI



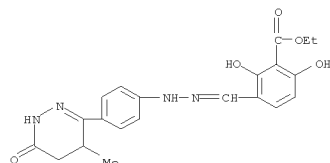
AB The title compds. [I; R1-R4 = H, alkyl, aryl, etc.; or R2 and R3 form a ring of 5-7 carbon atoms; R5-R9 = H, alkyl, aryl, etc.] which increase the calcium sensitivity of contractile proteins of the cardiac muscle and are thus useful in the treatment of congestive heart failure, were prepared Thus, reacting (R)-6-(4-hydrazinophenyl)-5-methyl-4,5-dihydro-2H-pyridazin-3-one (preparation given) with 4-hydroxy-3-methoxy-2-nitrobenzaldehyde in EtOH afforded (R)-II which showed 207.2% change from control in test for maximum calcium sensitizing effect in skinned cardiac fiber.
IT 360794-85-0P 360794-86-1P 360794-87-2P
360794-88-3P 360794-89-4P 360794-90-7P
360794-91-8P 360794-92-9P 360794-93-0P
360794-95-2P 360794-96-3P 360795-02-4P
360795-03-5P 360795-04-6P 360795-05-7P
360795-07-9P 360795-08-0P 360795-11-5P
360795-19-3P 360795-22-8P 360795-23-9P
360795-24-0P 360795-25-1P 360795-26-2P
360795-27-3P 360795-30-8P 360795-31-9P
360795-32-0P 360795-33-1P 360795-34-2P
360795-35-3P 360795-36-4P 360795-37-5P
360795-38-6P 360795-39-7P 360795-40-0P
360795-41-1P 360795-42-2P 360795-43-3P
360795-44-4P 360795-45-5P 360795-47-7P
360795-54-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of pyridazinylphenyl hydrazones useful against congestive
 heart failure)
 RN 360794-85-0 CAPLUS
 CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-,
 2-[4-[(4R)-1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

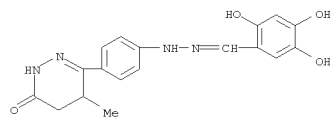
Absolute stereochemistry.
 Double bond geometry unknown.



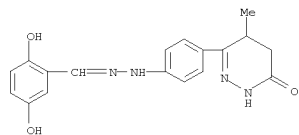
RN 360794-86-1 CAPLUS
 CN Benzoic acid,
 2,6-dihydroxy-3-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl)phenyl]hydrazinylidene]methyl]-, ethyl ester (CA INDEX NAME)



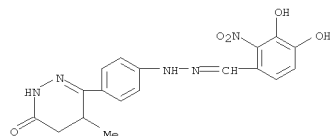
RN 360794-87-2 CAPLUS
 CN Benzaldehyde, 2,4,5-trihydroxy-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



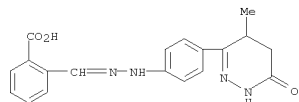
L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



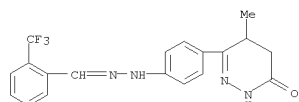
RN 360794-92-9 CAPLUS
 CN Benzaldehyde, 3,4-dihydroxy-2-nitro-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone
 (CA INDEX NAME)



RN 360794-93-0 CAPLUS
 CN Benzoic acid, 2-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

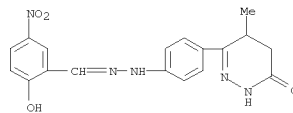


RN 360794-95-2 CAPLUS
 CN Benzaldehyde, 2-(trifluoromethyl)-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone
 (CA INDEX NAME)

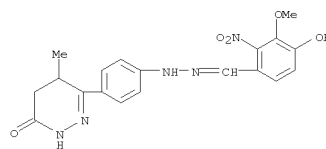


L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

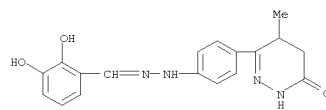
RN 360794-88-3 CAPLUS
 CN Benzaldehyde, 2-hydroxy-5-nitro-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-
 3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



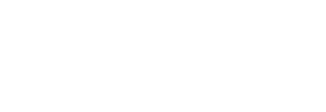
RN 360794-89-4 CAPLUS
 CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone
 (CA INDEX NAME)



RN 360794-90-7 CAPLUS
 CN Benzaldehyde, 2,3-dihydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

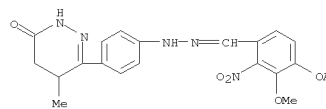


RN 360794-91-8 CAPLUS
 CN Benzaldehyde, 2,5-dihydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-
 pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

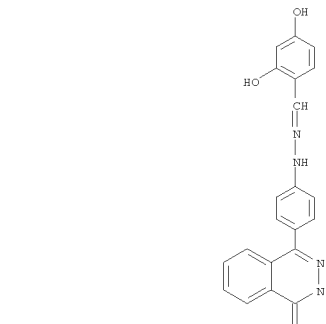


L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 360794-96-3 CAPLUS
 CN Benzaldehyde, 4-(acetyloxy)-3-methoxy-2-nitro-,
 1-[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone]
 (CA INDEX NAME)



RN 360795-02-4 CAPLUS
 CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(3,4-dihydro-4-oxo-1-
 phthalazinyl)phenyl]hydrazone (CA INDEX NAME)

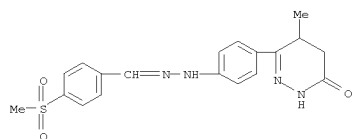


PAGE 1-A

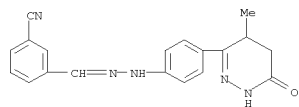
RN 360795-03-5 CAPLUS
 CN Benzaldehyde, 4-(methylsulfonyl)-,
 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone
 (CA INDEX NAME)



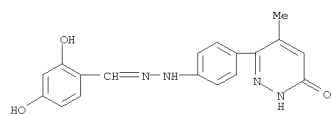
PAGE 2-A



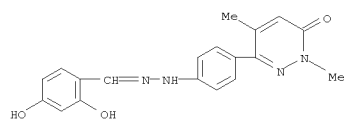
RN 360795-04-6 CAPLUS
CN Benzonitrile, 3-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



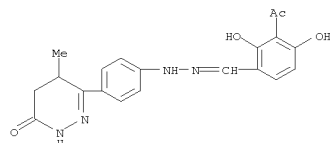
RN 360795-05-7 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(1,6-dihydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



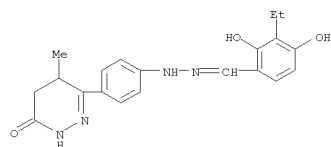
RN 360795-07-9 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(1,6-dihydro-1,4-dimethyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



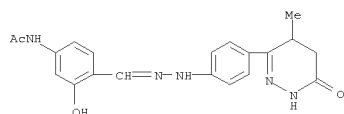
RN 360795-08-0 CAPLUS



RN 360795-23-9 CAPLUS
CN Benzaldehyde, 3-ethyl-2,4-dihydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

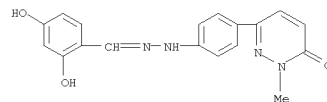


RN 360795-24-0 CAPLUS
CN Acetamide, N-[3-hydroxy-4-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)

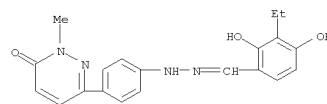


RN 360795-25-1 CAPLUS
CN Benzaldehyde, 2,4-dichloro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

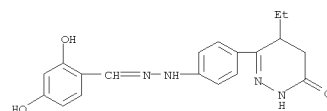
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



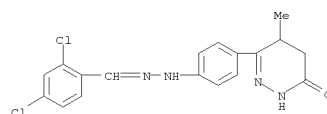
RN 360795-11-5 CAPLUS
CN Benzaldehyde, 3-ethyl-2,4-dihydroxy-, 2-[4-(1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



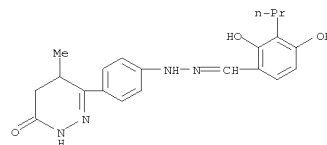
RN 360795-19-3 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(4-ethyl-1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



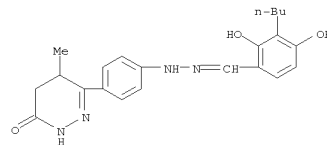
RN 360795-22-8 CAPLUS
CN Benzaldehyde, 3-acetyl-2,4-dihydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



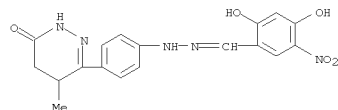
RN 360795-26-2 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-3-propyl-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



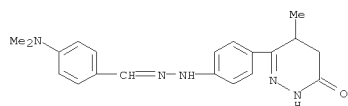
RN 360795-27-3 CAPLUS
CN Benzaldehyde, 3-butyl-2,4-dihydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



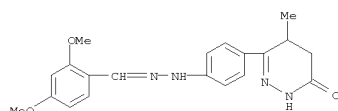
RN 360795-30-8 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-5-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



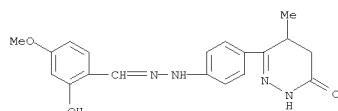
RN 360795-31-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



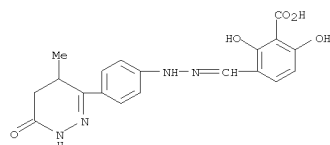
RN 360795-32-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



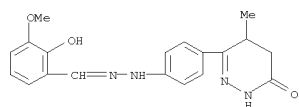
RN 360795-33-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-4-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



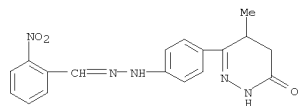
RN 360795-34-2 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-



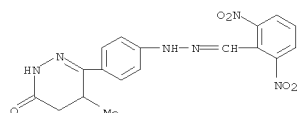
RN 360795-39-7 CAPLUS
CN Benzaldehyde, 2-hydroxy-3-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



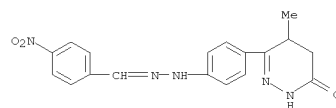
RN 360795-40-0 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



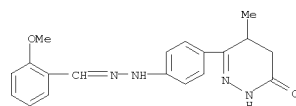
RN 360795-41-1 CAPLUS
CN Benzaldehyde, 2,6-dinitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



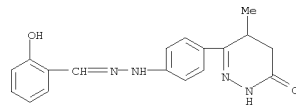
RN 360795-42-2 CAPLUS
CN Benzonitrile, 4-[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-



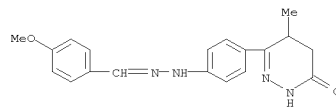
RN 360795-35-3 CAPLUS
CN Benzaldehyde, 2-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



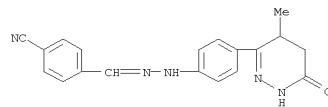
RN 360795-36-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



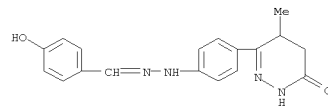
RN 360795-37-5 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



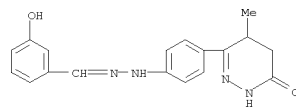
RN 360795-38-6 CAPLUS
CN Benzoic acid, 2,6-dihydroxy-3-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



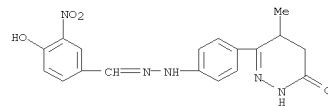
RN 360795-43-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



RN 360795-44-4 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

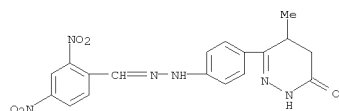


RN 360795-45-5 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

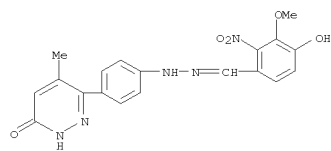


RN 360795-47-7 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

L10 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



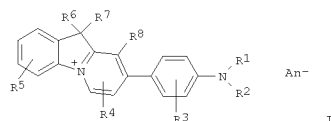
RN 360795-54-6 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-,
2-[4-(1,6-dihydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA
INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS
RECORD
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

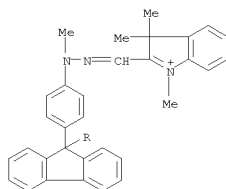
L10 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
JP 2000-193181 A 20000627
JP 2000-193184 A 20000627
JP 2000-193188 A 20000627

OTHER SOURCE(S): MARPAT 135:261999
GI



AB A hair dye composition comprises a direct dye compound (I, R1,R2 = e.g.,
H, lower alkyl or aralkyl, R3,R5 = H, halo, lower alkyl or alkoxy, R4 = lower
alkyl or (substituted) Ph, R6,R7 = lower alkyl, R8 = H, Me, or cyano and A- =
anion). I have markedly hair dyeing power, less color fade over time and
do not undergo a change in the color shade of the dye even after storage.
Thus, a formulation contained dye 0.2, guar gum 1, Gasquat-734 1,
monoethanolamine 0.1, H3PO4 to pH 9, perfume qs, and water to 100 g.
IT 138001-72-6 138001-75-9 138001-82-8
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair dye composition)
RN 138001-72-6 CAPLUS
CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-
hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl-, dichloride (9CI)
(CA INDEX NAME)

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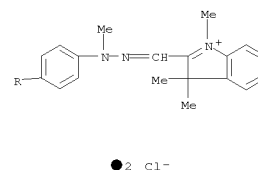


L10 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2001:691722 CAPLUS
DOCUMENT NUMBER: 135:261999
TITLE: Hair dye composition
INVENTOR(S): Ohashi, Yukihiko; Miyabe, Hajime; Matsunaga, Kenichi;
Totoki, Shintaro; Saito, Yoshinori
PATENT ASSIGNEE(S): Kao Corporation, Japan
SOURCE: Eur. Pat. Appl., 113 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1133975	A2	20010919	EP 2001-106318	20010315
EP 1133975	A3	20040317		
EP 1133975	B1	20080213		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2001261534	A	20010926	JP 2000-76638	20000317
JP 2001288055	A	20011016	JP 2000-107180	20000407
JP 2001288056	A	20011016	JP 2000-107188	20000407
JP 2001288058	A	20011016	JP 2000-107189	20000407
JP 2001288059	A	20011016	JP 2000-107190	20000407
JP 2001328925	A	20011127	JP 2000-107178	20000407
JP 2001328929	A	20011127	JP 2000-107187	20000407
JP 2001328930	A	20011127	JP 2000-193184	20000627
JP 2002012524	A	20020115	JP 2000-193177	20000627
JP 2002012525	A	20020115	JP 2000-193178	20000627
JP 2002012532	A	20020115	JP 2000-193180	20000627
JP 2002012529	A	20020115	JP 2000-193181	20000627
JP 2002012527	A	20020115	JP 2000-193188	20000627
PRIORITY APPLN. INFO.:			JP 2000-76009	A 20000317

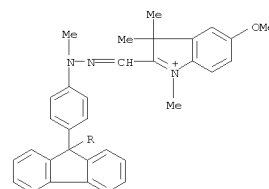
JP 2000-76637	A	20000317
JP 2000-76638	A	20000317
JP 2000-76668	A	20000317
JP 2000-107178	A	20000407
JP 2000-107180	A	20000407
JP 2000-107187	A	20000407
JP 2000-107188	A	20000407
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JP 2000-107190	A	20000407
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JP 2000-193178	A	20000627
JP 2000-193180	A	20000627

L10 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
PAGE 2-A

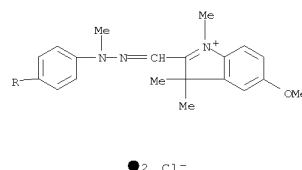


RN 138001-75-9 CAPLUS
CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-
hydrazinyl-1-ylidene)methylidene]]bis[5-methoxy-1,3,3-trimethyl-,
dichloride (9CI) (CA INDEX NAME)

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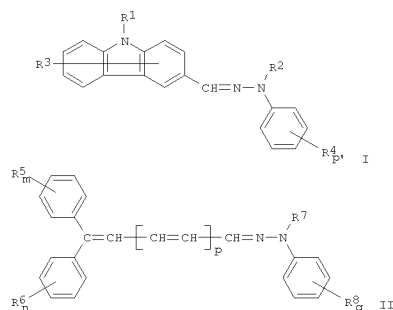
RN 138001-82-8 CAPLUS
CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-

L10 ANSWER 19 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS
RECORD
(8 CITINGS)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR
THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L10 ANSWER 20 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2000:205790 CAPLUS
DOCUMENT NUMBER: 132:243917
TITLE: Electrophotographic photoreceptor for process
cartridge of electrophotographic apparatus
INVENTOR(S): Nakata, Koichi; Tanaka, Masato
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

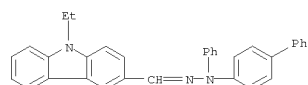
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000089493	A	20000331	JP 1998-276387	19980914
PRIORITY APPLN. INFO.:			JP 1998-276387	19980914

OTHER SOURCE(S): MARPAT 132:243917
GI



AB The electrophotog. photoreceptor has a light-sensitive layer on a support, wherein the light sensitive layer has a charge generating substance chosen from chlorogallium phthalocyanine and hydroxygallium phthalocyanine and a charge transporting compound chosen from I (R1 = alkyl, aralkyl, aryl; R2 = alkyl, aralkyl, aryl; R3 = H, halo, alkyl, aralkyl, aryl, alkoxy, substituted amino; R4 = halo, alkyl, aralkyl, aryl, alkoxy; p' = 0-5 integer) and II (R5-6 = halo, alkyl, aralkyl, aryl, alkoxy, substituted

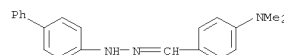
L10 ANSWER 20 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
amino; m, n = 0-5 integer; p = 0, 1; R 7 = alkyl, aralkyl, aryl; R8 = halo, alkyl, aralkyl, aryl, alkoxy, substitute amino; q = 0-5 integer).
The photoreceptor provides the excellent sensitivity towards the long wavelength light, the excellent voltage characteristics, and little faulty image.
IT 261725-66-0
RL: TEM (Technical or engineered material use); USES (Uses)
(charge transporting compound for electrophotog. photoreceptor)
RN 261725-66-0 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-ethyl-,
2-[1,1'-biphenyl]-4-yl-2-phenylhydrazone (CA INDEX NAME)



L10 ANSWER 21 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2000:145163 CAPLUS
DOCUMENT NUMBER: 133:120999
TITLE: Photoconductivity study of PVK and its copolymers doped with C60
AUTHOR(S): Wang, Chang-chun; Hu, Jian-hua; Fu, Shou-kuan
CORPORATE SOURCE: Department of Macromolecular Science, Laboratory of Polymer Molecular Engineering, Fudan University, Peop.

SOURCE: Rep. China
Fudan Xuebao, Ziran Kexueban (1999), 38(6), 662-667
CODEN: FHPTAY; ISSN: 0427-7104
PUBLISHER: Fudan Daxue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB A series of N-vinylcarbazole (NVC)/butyl acrylate (BA) copolymers were prepared using free radical polymerization NVC was able to well copolymerize with BA and the monomer compns. of starting mixture were very similar to the monomer unite compns. in the final copolymers. It was observed by TEM that adding monomer BA improved the film forming property of the PVK (polyvinylcarbazole). Meanwhile, the photocond. of PVK and its copolymer doped with C60 also has been studied. Adding C60 in PVK could improve its photocond. dramatically. The NVC/BA copolymers doped with C60 also had good photocond. The photocond. of copolymer containing 50% BA unite was similar to pure PVK, and this system had good film properties, further increase of the BA unite in the copolymer, the photocond. of the copolymer would decrease slowly.
IT 113181-36-5
RL: PRP (Properties)
(effect on photocond. of polyvinylcarbazole and its copolymers doped with C60)
RN 113181-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



L10 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1999:206869 CAPLUS
DOCUMENT NUMBER: 130:273914
TITLE: Hydrazones containing enamine groups, their uses, and electroluminescent device using them
INVENTOR(S): Enomoto, Kazuhiro
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11080111	A	19990326	JP 1997-247190	19970911

PRIORITY APPLN. INFO.: JP 1997-247190 19970911

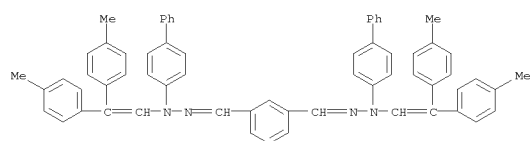
OTHER SOURCE(S): MARPAT 130:273914
AB The hydrazones are represented by R5R6C:CHNR3N:CR1QCR2:NNR4CH:CR5R6 [I; Q = (CH2)m, (un)substituted arylene; m = 0-4; R1, R2 = H, alkyl, (un)substituted aryl; R3, R4 = alkyl, (un)substituted aryl; R5 = (un)substituted aryl; R6 = H, alkyl, (ub)substituted aryl; R5 and R6 may be bonded to each other to form cycloalkane ring which may have lower alkyl, (un)substituted aryl, or condensed arom ring]. Hole injecting/transporting materials or luminescent materials containing I and

electroluminescent device using I are also described. The electroluminescent device using I can be driven at a low voltage and shows good luminescent efficiency.

IT 221891-96-9P 221892-10-0P 221892-19-9P
RL: DEV (Device component use); PNU (Preparation, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(Preparation of hydrazones containing enamine groups for electroluminescent devices)

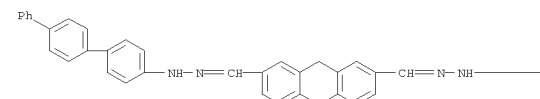
RN 221891-96-9 CAPLUS
CN 1,3-Benzenedicarboxaldehyde, 1,3-bis[2-[1,1'-biphenyl]-4-yl-2-[2,2-bis(4-methylphenyl)ethenyl]hydrazone] (CA INDEX NAME)



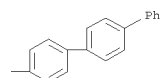
RN 221892-10-0 CAPLUS
CN 2,7-Anthracenedicarboxaldehyde, 9,10-dihydro-, bis[(2,2-diphenylethenyl)[1,1':4',1''-terphenyl]-4-ylhydrazone] (9CI)
(CA

L10 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
bis[(1,1':4',1''-terphenyl)-4-ylhydrazone] (9CI) (CA INDEX NAME)

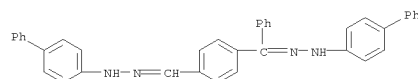
PAGE 1-A



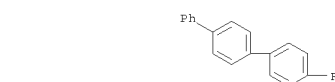
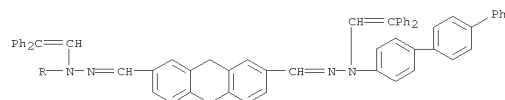
PAGE 1-B



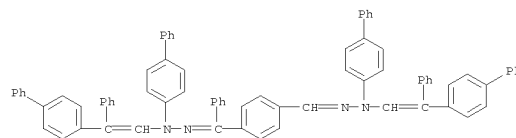
RN 221891-83-4 CAPLUS
CN Benzaldehyde, 4-[(2-[1,1'-biphenyl]-4-ylhydrazinylidene)phenylmethyl]-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



L10 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
INDEX NAME)

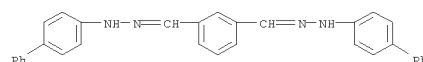


RN 221892-19-9 CAPLUS
CN Benzaldehyde, 4-[(2-[1,1'-biphenyl]-4-yl-2-(2-[1,1'-biphenyl]-4-yl-2-phenylethenyl)hydrazinylidene)phenylmethyl]-, 2-[1,1'-biphenyl]-4-yl-2-(2-[1,1'-biphenyl]-4-yl-2-phenylethenyl)hydrazone (CA INDEX NAME)



IT 221891-67-4 221891-74-3 221891-83-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydrazones containing enamine groups for electroluminescent devices)

RN 221891-67-4 CAPLUS
CN 1,3-Benzenedicarboxaldehyde, 1,3-bis[2-[1,1'-biphenyl]-4-ylhydrazone] (CA INDEX NAME)



RN 221891-74-3 CAPLUS
CN 2,7-Anthracenedicarboxaldehyde, 9,10-dihydro-,

L10 ANSWER 23 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:594738 CAPLUS
DOCUMENT NUMBER: 129:223238
ORIGINAL REFERENCE NO.: 129:45255a, 45258a
TITLE: Electrophotographic photoreceptor containing phthalocyanine derivative and styryl or hydrazone compound

INVENTOR(S): Kodera, Tatsuya; Nagamura, Hideki; Horiuchi, Tamotsu
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

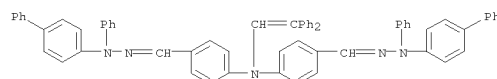
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10239875	A	19980911	JP 1997-47765	19970303

PRIORITY APPLN. INFO.: JP 1997-47765 19970303

OTHER SOURCE(S): MARPAT 129:223238
AB The title photoreceptor comprises a conductive support with a coating of a

photosensitive layer containing ≥ 1 phthalocyanine compound as a charge-generating agent and, as a charge-transporting agent, ≥ 1 styryl compound R3CR4:CHN[A1(CH:CH)mCR1:CR7R8]2 or ≥ 1 hydrazone compound R5CR6:CHN[A2(CH:CH)nCR2:NNR9R10]2 [R1, R2 = H, alkyl, aryl; R3-8 = H, alkyl, alkenyl, aralkyl, aryl (these groups may be substituted); R9, R10 = alkyl, alkenyl, aralkyl, aryl (these groups may be substituted); R3and R4, R5 and R6, R7 and R8 or R9 and R10 may form a ring; A1, A2 = divalent aromatic ring or atoms required to form a heterocycle along with the N atoms (these rings may be substituted); m, n = 0 or 1]. The photoreceptor shows high photosensitivity and durability in repeated use.

IT 212620-69-4
RL: DEV (Device component use); USES (Uses)
(electrophotog. photoreceptor containing phthalocyanine charge-generating agent and styryl or hydrazone compound charge-transporting agent)
RN 212620-69-4 CAPLUS
CN Benzaldehyde, 4,4'-[(2,2-diphenylethenyl)imino]bis-, bis[(1,1'-biphenyl)-4-ylphenylhydrazone] (9CI) (CA INDEX NAME)

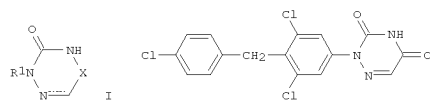


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L10 ANSWER 24 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1996:712918 CAPLUS
DOCUMENT NUMBER: 126:8142
ORIGINAL REFERENCE NO.: 126:1815a,1818a
TITLE: Method of producing 1,2,4-triazin-3-one derivatives
by
cyclizing semicarbazone derivatives
INVENTOR(S): Miki, Hideki; Iwanaga, Koichi; Aoki, Isao
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

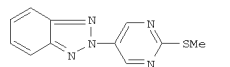
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 737672	A2	19961016	EP 1996-105485	19960404
EP 737672	A3	19961227		
EP 737672	B1	20011004		
R: BE, CH, DE, FR, GB, LI, NL				
JP 08337576	A	19961224	JP 1996-89294	19960411
CA 2174063	A1	19961015	CA 1996-2174063	19960412
CN 1140712	A	19970122	CN 1996-104625	19960412
CN 1062265	C	20010221		
US 5994355	A	19991130	US 1997-810499	19970228
US 6211178	B1	20010403	US 1999-335918	19990618
PRIORITY APPLN. INFO.:			JP 1995-89786	A 19950414
			JP 1993-258654	A 19931015
			JP 1994-223761	A 19940919
			US 1994-322489	B3 19941014
			US 1996-602451	B2 19960216
			US 1996-632580	B2 19960415
			US 1996-755059	B1 19961122
			US 1997-810499	A3 19970228

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 126:8142; MARPAT 126:8142
GI



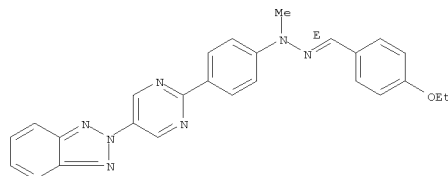
AB The title compds. [I; R1 = (un)substituted hydrocarbon; X = CO, CS, an

L10 ANSWER 25 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1996:702555 CAPLUS
DOCUMENT NUMBER: 126:31323
ORIGINAL REFERENCE NO.: 126:6373a,6376a
TITLE: Chemistry and nonlinear optical properties of new
2H-benzotriazole derivatives
Gompper, Rudolf; Walther, Peter
CORPORATE SOURCE: Inst. Organische Chemie, Univ. Muenchen, Munich,
D-80333, Germany
SOURCE: Tetrahedron (1996), 52(46), 14607-14624
CODEN: TETRAH; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

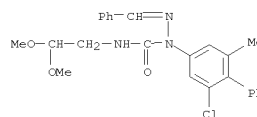


AB A 2H-benzotriazolyl group was introduced as a new electron-withdrawing
group for non-linear optically-active chromophores. Novel benzotriazole
derivs. and hydrazones were synthesized. While their electronic
structure
and acceptor capability was comparable to those of structurally related
nitro compds., 2H-benzotriazoles showed a more favorable
transparency-non-linearity trade-off for non-linear optics applications.
An example compound was 2-[2-[2-(methylthio)-4-pyrimidinyl]ethenyl]-2H-
benzotriazole (I). The first mol. hyperpolarizabilities β were
measured with hyper-Raleigh scattering (HRS).
IT 184245-54-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and chemical and nonlinear optical properties of
2H-benzotriazole
derivs.)
RN 184245-54-3 CAPLUS
CN Benzaldehyde, 4-ethoxy-, [4-[5-(2H-benzotriazol-2-yl)-2-
pyrimidinyl]phenyl]methylhydrazone, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



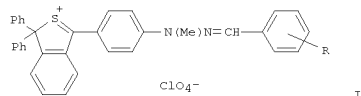
L10 ANSWER 24 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
optionally substituted CH2; dashed line = optional double bond] prepd. in
an industrial manner conveniently and simply in high yield by cyclizing
semicarbazone derivs. represented by R1N(N:CR2R3)CONHCH2CH(OR4)2 (R2, R3
= H, an optionally substituted hydrocarbon, an electron withdrawing group;
R4 = an optionally substituted alkyl) (II). II are prepd. by reacting
hydrazone derivs. represented by R1NHN:CR2R3 with dialkoxyethyl
isocyanates represented by (R4O)2CHCH2NCO. I are useful as herbicides,
pesticides, parasiticides, and veterinary drugs (no data). Thus,
1-benzylidene-2-[4-(4-chlorobenzyl)-3,5-dichlorophenyl]-4-(2,2-
diethoxyethyl)semicarbazide was cyclized in the presence of 35% HCl to
give 90% 2-[3,5-dichloro-4-(4-chlorobenzyl)phenyl]-4,5-dihydro-1,2,4-
triazine-3(2H)-one, which was oxidized by H2O2 to give 85% the title
compd. (III).
IT 183603-01-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of triazinone derivs. by cyclizing semicarbazone derivs.)
RN 183603-01-2 CAPLUS
CN Hydrazinecarboxamide, 1-(2-chloro-6-methyl[1,1'-biphenyl]-4-yl)-N-(2,2-
dimethoxyethyl)-2-(phenylmethylene)- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS
RECORD
(4 CITINGS)

L10 ANSWER 25 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS
RECORD
(3 CITINGS)

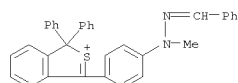
L10 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1996:116923 CAPLUS
DOCUMENT NUMBER: 124:178858
ORIGINAL REFERENCE NO.: 124:33137a,33140a
TITLE: Reaction of 1-alkylthio-substituted thiophthalylum salts with hydrazones of aromatic aldehydes
AUTHOR(S): Oparin, D. A.; Solodunov, A. A.
CORPORATE SOURCE: Inst. Biokhim., Belarus
SOURCE: Vestsi Akademii Navuk Belarusi, Seryya Khimichnykh Navuk (1995), (1), 62-4
CODEN: VARNEK; ISSN: 0002-3590
PUBLISHER: Navuka i Tekhnika
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



AB Cationic dyes I (R=H, 4-MeO, 3-Br) were prepared by the reaction of 1-ethylthio-3,3-diphenylthiophthalylum tetrafluoroborate with methylphenylhydrazones of benzaldehyde or substituted benzaldehydes (p-CH3O, m-Br) under conditions of general acidic catalysis.
IT 173993-62-9P 173993-64-1P 173993-66-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (reaction of 1-alkylthio-substituted thiophthalylum salts with hydrazones in the cationic dye synthesis)
RN 173993-62-9 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[methyl(phenylmethylene)hydrazino]phenyl]-1,1-diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 173993-61-8
CMF C34 H27 N2 S



CM 2

CRN 14797-73-0
CMF C1 O4

L10 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CM 2
CRN 14797-73-0
CMF C1 O4



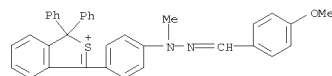
L10 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 173993-64-1 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[[[4-methoxyphenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 173993-63-0
CMF C35 H29 N2 O S



CM 2

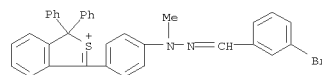
CRN 14797-73-0
CMF C1 O4



RN 173993-66-3 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[[[3-bromophenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 173993-65-2
CMF C34 H26 Br N2 S

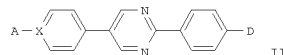
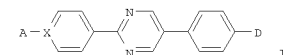


L10 ANSWER 27 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:231105 CAPLUS
DOCUMENT NUMBER: 122:20115
ORIGINAL REFERENCE NO.: 122:3883a,3886a
TITLE: Aromatically substituted pyrimidine derivatives, their preparation, and their use in liquid-crystal mixtures for nonlinear optics
INVENTOR(S): Gompper, Rudolf; Engel, Harald; Lupo, Donald
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Ger. Offen., 32 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

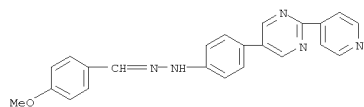
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4241806	A1	19940616	DE 1992-4241806	19921211
US 5507974	A	19960416	US 1993-164145	19931209
JP 06228131	A	19940816	JP 1993-312242	19931213

PRIORITY APPLN. INFO.: DE 1992-4241806 A 19921211

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 122:20115
GI

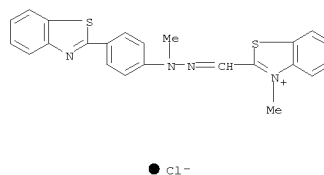


AB The compds. have the general formula I or II, where AX = NO2C, R1OCC, R1CO2C, R2COC, N, R3N+ An-, (CN)2CN, or R1SO2C; An- = an anion; D = NH2, NHH2, OR6, O(CH2)pOH, OH, NR5R6, NHR6, N:CHR4, HNN:CHR4, or NO2; R1,R2,R3,R5 = C1-22 alkyl or CF3(CF2)m(CH2)n; m ≥ 5; n ≥ 0; n + m ≤ 22; R4 = optionally substituted Ph; R6 = C1-22 alkyl, CF3(CF2)m(CH2)n, or (CH2)pOH; and p = 2-5.
IT 159488-81-0P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (preparation of; for nonlinear optical devices)
RN 159488-81-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-[2-(4-pyridinyl)-5-pyrimidinyl]phenyl]hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

L10 ANSWER 28 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1993:170978 CAPLUS
 DOCUMENT NUMBER: 118:170978
 ORIGINAL REFERENCE NO.: 118:29311a,29314a
 TITLE: Molecular structure of cationic dyes and their mixing properties
 AUTHOR(S): Xie, Kongliang; Yang, Jinzong; Hou, Yufen
 CORPORATE SOURCE: Inst. Chem. Eng., Dalian Univ. Technol., Dalian, 116012, Peop. Rep. China
 SOURCE: Huagong Xuebao (Chinese Edition) (1992), 43(2), 247-54
 CODEN: HUKHAI; ISSN: 0438-1157
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB The mixing properties of F-containing triazine and azo cationic dyes could be described by the inorg. value (I)-organic value (O) ratio of the dye.
 The organic and inorg. values of the dye could be as: O value = $n+20 + \sum O_i$ and I value = $\sum I_i$ (where n is the carbon nos., O_i and I_i the organic value and inorg. value of the substitution group, resp.).
 IT 146672-23-3
 RL: MSC (Miscellaneous)
 (dyes, mixing properties of, inorg. value-organic value ratio in relation to)
 RN 146672-23-3 CAPLUS
 CN Benzothiazolium, 2-[[2-[4-(2-benzothiazolyl)phenyl]-2-methylhydrazinylidene]methyl]-3-methyl-, chloride (1:1) (CA INDEX NAME)



L10 ANSWER 29 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1993:49214 CAPLUS
 DOCUMENT NUMBER: 118:49214
 ORIGINAL REFERENCE NO.: 118:8667a,8670a
 TITLE: Electrophotographic photoreceptor with high sensitivity
 INVENTOR(S): Kawate, Kenji; Nabeta, Osamu; Kosho, Noboru
 PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04128765	A	19920430	JP 1990-249074	19900919
JP 2917473	B2	19990712		

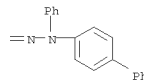
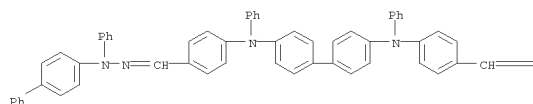
PRIORITY APPLN. INFO.: JP 1990-249074 19900919

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB In an electrophotog. photoreceptor having charge-generating and charge-transporting layers from organic materials on a conductive support, the charge-transporting layer contains an amine compound R1R2NXXR3R4
 [R1-4 = alkyl, aralkyl, aryl, heterocyclyl, thenyl; X = aryl, Y(p-C6H4)2; Y = CR5R6, I; R5,6 = alkyl] and a hydrazone compound ArHC:NNR1R2 [Ar = aryl, condensed cyclyl, heterocyclyl]. Alternatively, the amine compound may be
 II [R7-12 = alkyl, aralkyl, aryl, heterocyclyl, thenyl] and the hydrazone compound may be III.
 IT 145299-33-8
 RL: USES (Uses)
 (charge-transporting substance, electrophotog. photoreceptor containing)
 RN 145299-33-8 CAPLUS
 CN Benzaldehyde, 4,4'-[[1,1'-biphenyl]-4,4'-diylbis(phenylimino)]bis-, bis([1,1'-biphenyl]-4-ylphenylhydrazone) (9CI) (CA INDEX NAME)

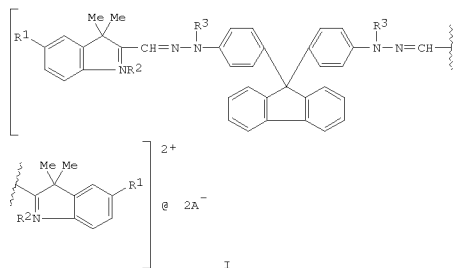
PAGE 1-A



L10 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1992:7923 CAPLUS
 DOCUMENT NUMBER: 116:7923
 ORIGINAL REFERENCE NO.: 116:1523a,1526a
 TITLE: Cationic dyes and their use in dyeing of paper, leather, and textiles
 INVENTOR(S): Imakomi, Hiroshi; Kondo, Masayoshi; Nakajo, Teruo
 PATENT ASSIGNEE(S): Hodoqaya Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03170560	A	19910724	JP 1989-309183	19891130
PRIORITY APPLN. INFO.:			JP 1989-309183	19891130

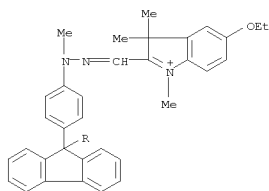
OTHER SOURCE(S): MARPAT 116:7923
 GI



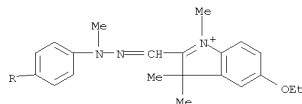
AB The dyes [I; R1 = H, Cl, Me, OMe, OEt, CO2Me; R2 = (OH-, Cl-4-alkoxy-, halo-, NC-, H2NCO-, Ph-, or PhO-substituted) Cl-3-alkyl; R3 = Cl-4-alkyl; A = anion], useful for dyeing pulp, paper, leather, cotton, and gelatin, were prepared. Thus, 9,9-bis(4-aminophenyl)fluorene was tetrazotized, coupled with 1,3,3-trimethyl-2-methyleneindoline, quaternized with Me2SO4, and salted out with NaCl to give I (R1 = H, R2 = R3 = Me, A = Cl) (II), λmax 440 nm in 50% aqueous acetone. A mixture of 50% unbleached sulfite pulp and 50% mech. pulp was dyed with II and made into bright yellow paper with good fastness to light and water, and the wastewater from the papermaking was practically uncolored.

L10 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

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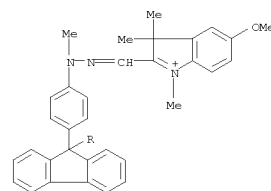


● 2 Cl-

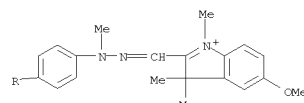
RN 138001-78-2 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[5-(methoxycarbonyl)-1,3,3-trimethyl-, dichloride (9CI) (CA INDEX NAME)

L10 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 IT 138001-75-9P 138001-77-1P 138001-78-2P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, as orange dye for cotton and leather and paper)
 RN 138001-75-9 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[5-methoxy-1,3,3-trimethyl-, dichloride (9CI) (CA INDEX NAME)

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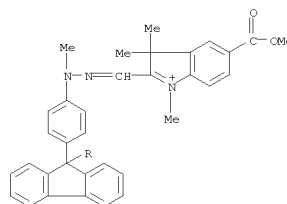


● 2 Cl-

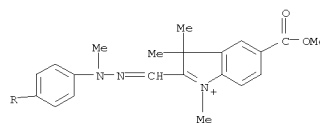
RN 138001-77-1 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[5-ethoxy-1,3,3-trimethyl-, dichloride (9CI) (CA INDEX NAME)

L10 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

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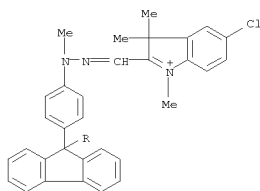
PAGE 2-A



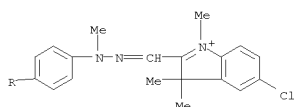
● 2 Cl-

IT 138001-74-8P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, as red dye for leather)
 RN 138001-74-8 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[5-chloro-1,3,3-trimethyl-, dichloride (9CI) (CA INDEX NAME)

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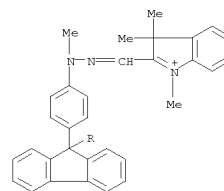


PAGE 2-A

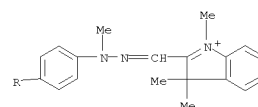
● 2 Cl⁻

IT 138001-72-6P 138001-73-7P 138001-76-0P
 138001-79-3P 138001-80-6P 138001-81-7P
 138001-82-8P 138001-83-9P 138001-84-0P
 138001-85-1P 138001-86-2P 138001-87-3P
 138001-88-4P 138001-89-5P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, as yellow dye for cotton and leather and paper)
 RN 138001-72-6 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl-, dichloride (9CI)
 (CA INDEX NAME)

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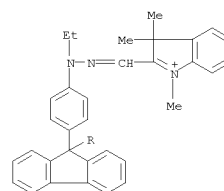


PAGE 2-A

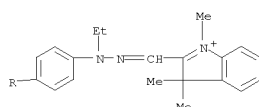
● 2 Cl⁻

RN 138001-73-7 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-ethyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl-, dichloride (9CI)
 (CA INDEX NAME)

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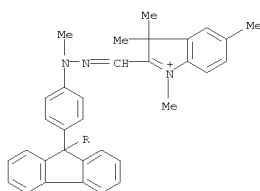


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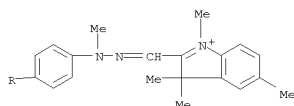
● 2 Cl⁻

RN 138001-76-0 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1,3,3,5-tetramethyl-, dichloride (9CI)
 (CA INDEX NAME)

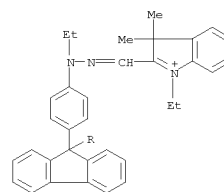
PAGE 1-A



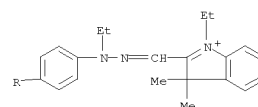
PAGE 2-A

● 2 Cl⁻

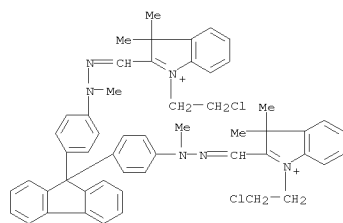
PAGE 1-A



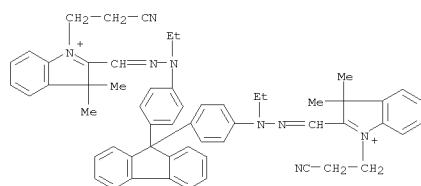
PAGE 2-A

● 2 Cl⁻

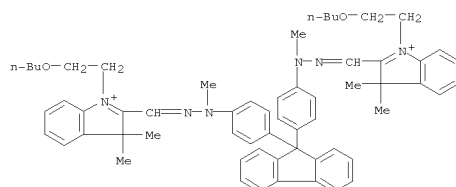
RN 138001-80-6 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-chloroethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

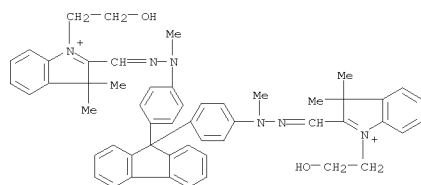
RN 138001-81-7 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-ethyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-cyanoethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

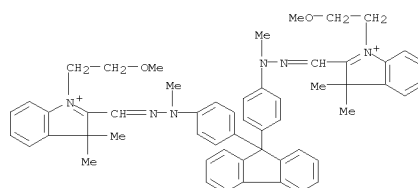
RN 138001-82-8 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-methoxyethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

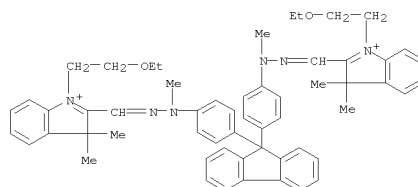
RN 138001-85-1 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-hydroxyethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

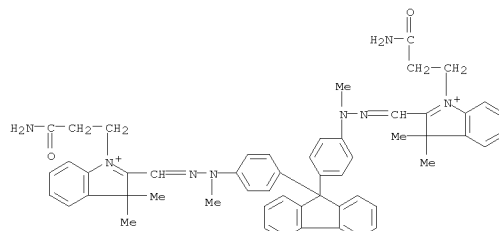
RN 138001-86-2 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(3-amino-3-oxopropyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

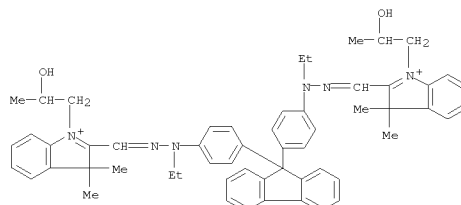
RN 138001-83-9 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-ethoxyethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

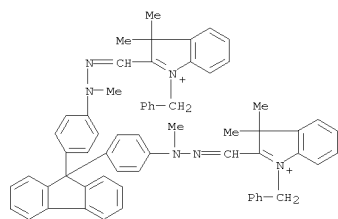
RN 138001-84-0 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-butoxyethyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

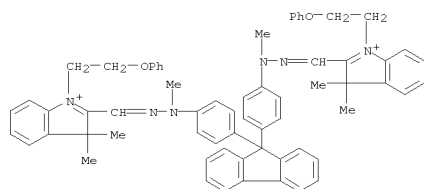
RN 138001-87-3 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-ethyl-2-hydrazinyl-1-ylidene)methylidene]]bis[1-(2-hydroxypropyl)-3,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

RN 138001-88-4 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[3,3-dimethyl-1-(phenylmethyl)-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

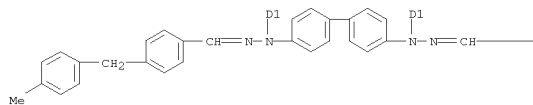
RN 138001-89-5 CAPLUS
 CN 3H-Indolium, 2,2'-[9H-fluoren-9-ylidenebis[4,1-phenylene(2-methyl-2-hydrazinyl-1-ylidene)methylidene]]bis[3,3-dimethyl-1-(2-phenoxyethyl)-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

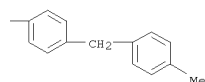
PAGE 1-A



2 (D1-Me)



PAGE 1-B



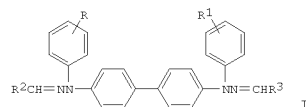
RN 137388-45-5 CAPLUS
 CN Benzaldehyde, 3,5-dichloro-, [1,1'-biphenyl]-4,4'-diylbis[(methylphenyl)hydrazone] (9CI) (CA INDEX NAME)

L10 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1991:666818 CAPLUS
 DOCUMENT NUMBER: 115:266818
 ORIGINAL REFERENCE NO.: 115:45153a, 45156a
 TITLE: Electrophotographic photoreceptors using bishydrazone charge-transporting agent
 INVENTOR(S): Ono, Hitoshi; Takeuchi, Masako
 PATENT ASSIGNEE(S): Mitsubishi Kasei Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03119361	A	19910521	JP 1989-258167	19891003
JP 2830178	B2	19981202		

PRIORITY APPLN. INFO.: JP 1989-258167 19891003

GI



AB The photoreceptors comprise an elec. conductive support with a coating of a photosensitive layer containing a bishydrazone derivative I [R, R1 = H, lower alkyl, alkoxy; R2, R3 = (substituted) aryl, (substituted) heterocyclic residue]. The photoreceptors show increased photosensitivity and improved

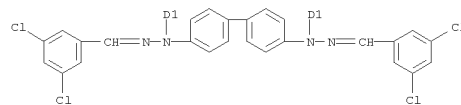
durability in repeated use. Thus, an Al-deposited polyester film support was coated with a charge-generating layer containing a disazo pigment and overcoated with a charge-transporting layer containing I (R, R1 = H; R2, R3 =

p-C6H4OCH2C6H4) to give a photoreceptor.
 IT 137388-44-4P 137388-45-5P 137407-21-7P
 137407-22-8P 137407-23-9P 137407-24-0P
 137407-25-1P 137407-26-2P 137407-27-3P
 137407-28-4P 137407-29-5P 137535-07-0P

RL: PREP (Preparation)
 (preparation of, as charge-transporting agent for electrophotog. photoconductor)
 RN 137388-44-4 CAPLUS
 CN Benzaldehyde, 4-[(4-methylphenyl)methyl]-, [1,1'-biphenyl]-4,4'-diylbis[(methylphenyl)hydrazone] (9CI) (CA INDEX NAME)

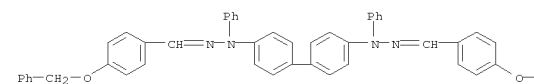


2 (D1-Me)



RN 137407-21-7 CAPLUS
 CN Benzaldehyde, 4-(phenylmethoxy)-, [1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

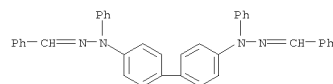
PAGE 1-A



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—CH2—Ph

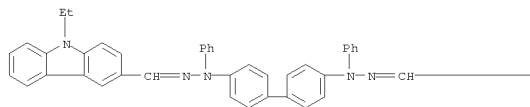
RN 137407-22-8 CAPLUS
 CN Benzaldehyde, [1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)



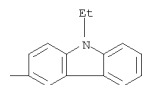
L10 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 137407-23-9 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-ethyl-,
[1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

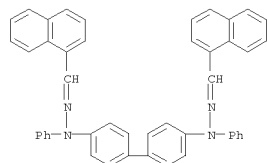
PAGE 1-A



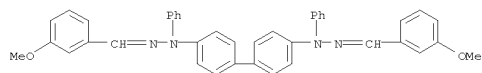
PAGE 1-B



RN 137407-24-0 CAPLUS
CN 1-Naphthalenecarboxaldehyde,
[1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone)
(9CI) (CA INDEX NAME)

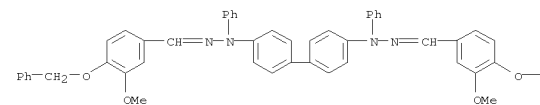


RN 137407-25-1 CAPLUS
CN Benzaldehyde, 3-methoxy-, [1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone)
(9CI) (CA INDEX NAME)



L10 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

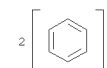
PAGE 1-A



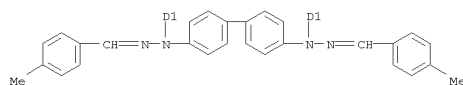
PAGE 1-B

—CH₂—Ph

RN 137535-07-0 CAPLUS
CN Benzaldehyde, 4-methyl-, [1,1'-biphenyl]-4,4'-
diylbis[(methoxyphenyl)hydrazone] (9CI) (CA INDEX NAME)



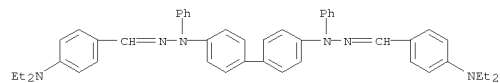
2 (D1—O—Me)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
RECORD (1 CITINGS)

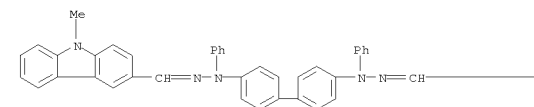
L10 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 137407-26-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, [1,1'-biphenyl]-4,4'-
diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

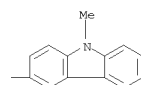


RN 137407-27-3 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-,
[1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

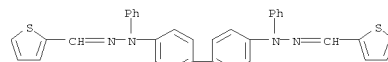
PAGE 1-A



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RN 137407-28-4 CAPLUS
CN 2-Thiophenecarboxaldehyde, [1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone)
(9CI) (CA INDEX NAME)



RN 137407-29-5 CAPLUS
CN Benzaldehyde, 3-methoxy-4-(phenylmethoxy)-,
[1,1'-biphenyl]-4,4'-diylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

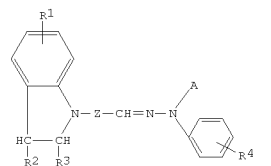
L10 ANSWER 32 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1989:202805 CAPLUS
DOCUMENT NUMBER: 110:202805
ORIGINAL REFERENCE NO.: 110:33501a, 33504a
TITLE: Electrophotographic photoreceptor using an
indoline-type hydrazone
INVENTOR(S): Tanaka, Hisami
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63249151	A	19881017	JP 1987-82981	19870406

PRIORITY APPLN. INFO.: JP 1987-82981 19870406

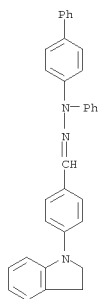
GI



AB The photoreceptor has a layer containing I (R1-4 = H, (un)substituted alkyl, aryl, aralkyl; Z = divalent aryl; A = alkyl, aryl, or aralkyl). Thus, a photoreceptor with a charge-transport layer containing I (R1-4 = H; Z = p-phenylene; A = Ph) was highly sensitive and durable.

IT 120228-13-9
RL: USES (Uses)
(charge-transport agent, for electrophotog. photoconductors)

RN 120228-13-9 CAPLUS
CN Benzaldehyde, 4-(2,3-dihydro-1H-indol-1-yl)-,
2-[1,1'-biphenyl]-4-yl-2-phenylhydrazone (CA INDEX NAME)

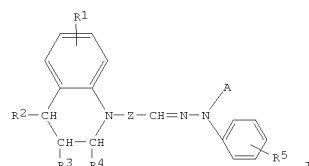


L10 ANSWER 33 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1989:182924 CAPLUS
 DOCUMENT NUMBER: 110:182924
 ORIGINAL REFERENCE NO.: 110:30177a, 30180a
 TITLE: Electrophotographic photoconductor using a quinoline-type hydrazone
 INVENTOR(S): Tanaka, Hisami
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

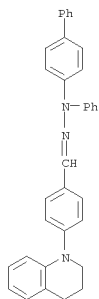
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63249150	A	19881017	JP 1987-82980	19870406

PRIORITY APPLN. INFO.: JP 1987-82980 19870406

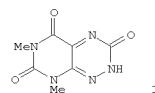
GI



AB The photoreceptor has a layer containing I (R1-5 = H, (un)substituted alkyl, aryl, or aralkyl; Z = divalent aryl; and A = alkyl, aryl, or aralkyl). Thus, a photoreceptor with a charge-transport layer containing I (R1-5 = H; Z = p-phenylene; A = Ph) was highly sensitive and durable.
 IT 120227-95-4 CAPLUS
 RL: USES (Uses)
 (charge-transport agent, for electrophotog. photoconductors)
 RN 120227-95-4 CAPLUS
 CN Benzaldehyde, 4-(3,4-dihydro-1(2H)-quinolinyl)-, 2-[1,1'-biphenyl]-4-yl-2-phenylhydrazone (CA INDEX NAME)

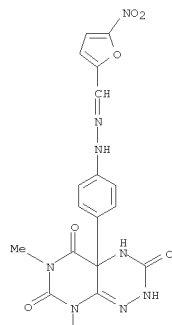


L10 ANSWER 34 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1988:131765 CAPLUS
 DOCUMENT NUMBER: 108:131765
 ORIGINAL REFERENCE NO.: 108:21619a, 21622a
 TITLE: Synthesis and some properties of 4a derivatives of 6,8-dimethylpyrimido[5,4-e][1,2,4]triazine-3,5,7-trione
 AUTHOR(S): Azev, Yu. A.; Mudretsova, I. I.; Sidorov, E. O.; Pidenskii, E. L.; Goleneva, A. F.; Aleksandrova, G.
 A.
 CORPORATE SOURCE: Ural. Politekh. Inst., Sverdlovsk, USSR
 SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1987), 21(7), 829-33
 CODEN: KHFFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 108:131765
 GI



AB 4A-Derivs. of 2,3,4,4a,5,6,7,8-octahydro-6,8-dimethylpyrimido[5,4-e]triazene-3,5,7-trione (fervenulen-3-one) (I) were prepared via its reaction with indole, phenylhydrazine, o-phenylenediamines, and 1-phenyl-3-methyl-2-pyrazolin-5-one. The PhNNH2 derivative was converted to Schiff bases with p-MeOC6H4CHO and 5-nitrofurfural. The phenylenediamines were converted to the corresponding benzimidazolethione by CS2.
 IT 113458-65-4P 113458-66-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 113458-65-4 CAPLUS
 CN 2-Furancarboxaldehyde, 5-nitro-, 2-[4-(3,4,5,6,7,8-hexahydro-6,8-dimethyl-3,5,7-trioxypyrimido[5,4-e]-1,2,4-triazin-4a(2H)-yl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

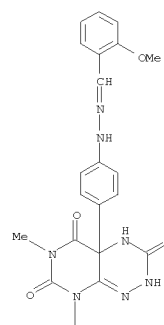


Me

PAGE 2-A

RN 113458-66-5 CAPLUS
 CN Benzaldehyde, 2-methoxy-, 2-[4-(3,4,5,6,7,8-hexahydro-6,8-dimethyl-1,3,5,7-trioxopyrimido[5,4-e]-1,2,4-triazin-4a(2H)-yl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

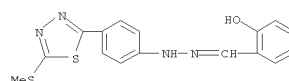


Me

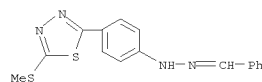
PAGE 2-A

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)

ACCESSION NUMBER: 1985:127120 CAPLUS
 DOCUMENT NUMBER: 102:127120
 ORIGINAL REFERENCE NO.: 102:19885a,19888a
 TITLE: Antiphytoviral compounds with noncyclic azine structure
 AUTHOR(S): Schuster, G.; Heinisch, L.; Schulze, W.; Ulbricht, H.; Willitzer, H.
 CORPORATE SOURCE: SEKT. Biowiss., Karl-Marx-Univ. Leipzig, Leipzig, DDR-7010, Ger. Dem. Rep.
 SOURCE: Phytopathologische Zeitschrift (1984), 111(2), 97-113
 CODEN: PHYZA3; ISSN: 0031-9481
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB The antiphytoviral activities of variously substituted compds. with noncyclic azine structures were studied. Of a total of 90 tested compds. 42 had the effect of more or less strongly inhibiting the concentration of potato virus X (PVX) in inoculated and (or) secondarily infected leaves of Nicotiana tabacum cv Samsun. An effect on the virion of PVX in vitro was not observed. Thus, the substances may interact with the virus replication. Some of them also reduced the number of local lesions caused by tobacco mosaic virus on leaves of N. glutinosa. Several compds. were excellent synergists of 2,4-dioxohexahydro-1,3,5-triazine (DHT) [27032-78-6]. Pyridine-3-aldehyde-S-ethyl-isothiosemicarbazone [66049-17-0] and 1-ethyl-isatine-S-ethyl-isothiosemicarbazone Cu complex when used in combination with DHT greatly increased the mass of potato tubers produced from plantlets derived from potato eye cuttings, as compared with the identical control. Simultaneously the mentioned substances reduced the number of symptom-bearing eye cutting plants. Quinoline-2-aldehyde-N-oxide-S-allyl-isothiosemicarbazone [63332-83-2] greatly reduced the number of symptom-bearing plants, without substantially influencing the mass of tubers. Thus, one compds. with noncyclic azine structure, especially when used in combination with DHT, may be of high interest for practical application. Comparing the structures of compds. with noncyclic azine structure active against plant or human viruses, the antiphytoviral compds. are only infrequently active against animal viruses and vice versa. However, the compds. active in these 2 different virus host systems often are closely related structurally.
 IT 91574-76-4 95397-69-6
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (phytovirucidal activity of, structure in relation to)
 RN 91574-76-4 CAPLUS
 CN Benzaldehyde, 2-hydroxy-, 2-[4-[5-(methylthio)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



RN 95397-69-6 CAPLUS
 CN Benzaldehyde, 2-[4-[5-(methylthio)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



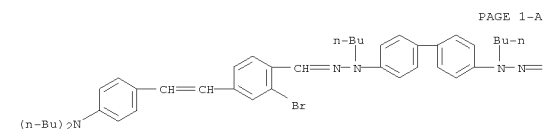
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
 (3 CITINGS)

L10 ANSWER 36 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1985:53930 CAPLUS
DOCUMENT NUMBER: 102:53930
ORIGINAL REFERENCE NO.: 102:8359a,8362a
TITLE: Electrophotographic photosensitive materials
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59168456	A	19840922	JP 1983-41479	19830315

PRIORITY APPLN. INFO.: JP 1983-41479 19830315

AB Electrophotog. photosensitive materials contain a hydrazone compound of the
the formula $RNR_1ZCH:CHZ_1CH:NNR_2Z_2Z_2NR_3N:CHZ_1CH:CHZ_2NR_1$ (I: R, R₁ = alkyl, aralkyl, Ph; R₂ in combination may complete a 5- or 6-membered heterocycle; R₃ = alkyl, aralkyl, aryl; Z, Z₁ = arylene; Z₂ = divalent organic moiety). The hydrazones I are especially useful in charge-transfer layers of composite electrophotog. plates. Thus, an Al support was coated with a composition containing β -Cu phthalocyanine and a polyester resin and coated with a composition containing II and a polycarbonate resin to give a composite electrophotog. plate having good sensitivity and durability.
IT 94412-67-6
RL: TEM (Technical or engineered material use); USES (Uses) (electrophotog. charge-transfer agent)
RN 94412-67-6 CAPLUS
CN Benzaldehyde, 2-bromo-4-[2-[4-(dibutylamino)phenyl]ethenyl]-, [1,1'-biphenyl]-4,4'-diylbis(butylhydrazone) (9CI) (CA INDEX NAME)

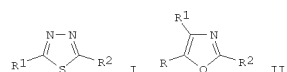


L10 ANSWER 37 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:524891 CAPLUS
DOCUMENT NUMBER: 101:124891
ORIGINAL REFERENCE NO.: 101:18939a,18942a
TITLE: Agent for chemotherapy of crop viruses
INVENTOR(S): Schuster, Gottfried; Kochmann, Werner; Kramer, Wilfried; Steinke, Walter; Hoeringklee, Walter; Winter, Harald; Steinke, Ulrich; Esser, Gerhard; Hanzsch, Christoph; et al.
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: Ger. (East), 26 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

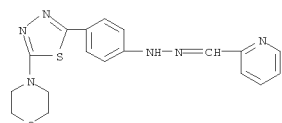
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 160762	A3	19840307	DD 1981-228754	19810331

PRIORITY APPLN. INFO.: DD 1981-228754 19810331

GI

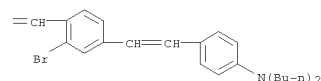


AB The plant virucidal activity of 2,4-dioxohexahydro-1,3,5-triazine [27032-78-6] is synergized by a thiadiazole I (R₁ and R₂ = NH₂, alkylamino, arylamino, etc.), and/or an oxazole II (R = alkyl, Ph, or hydroxyalkyl; R₁ = alkyl, Ph, OH, or CO₂H; R₂ = NH₂, guanlyl, etc.) and/or a hydrazone R₁R₂C:NN:CR₃R₄ (R₁ and R₂ = H, SH, CN, heterocyclic radical, etc., R₃ and R₄ = H, SH, OH, etc.). Thus, the inhibitory effect of 2,4-dioxohexahydro-1,3,5-triazine on potato virus X, in secondarily-injected Nicotiana tabacum leaves, was enhanced by pyridin-3-aldehyde S-ethylisothiosemicarbazone [66049-17-0].
IT 85260-80-6 91574-73-1 91574-76-4
RL: BIOL (Biological study) (plant-virucidal activity of dioxohexahydrotriazine enhancement by)
RN 85260-80-6 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-[4-[5-(4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



L10 ANSWER 36 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

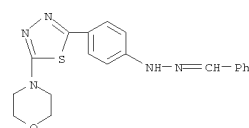
PAGE 1-B



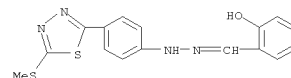
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L10 ANSWER 37 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 91574-73-1 CAPLUS
CN Benzaldehyde, 2-[4-[5-(4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



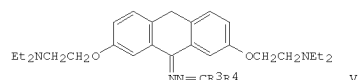
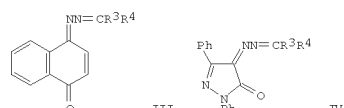
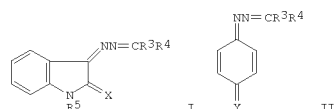
RN 91574-76-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[4-[5-(methylthio)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



L10 ANSWER 38 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1983:174855 CAPLUS
 DOCUMENT NUMBER: 98:174855
 ORIGINAL REFERENCE NO.: 98:26501a,26504a
 TITLE: Agent for chemotherapy against crop plant viruses
 INVENTOR(S): Schuster, Gottfried; Heinisch, Lothar; Willitzer, Horst; Schulze, Werner; Ulbricht, Hermann
 PATENT ASSIGNEE(S): Ger. Dem. Rep.
 SOURCE: Ger. (East), 18 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

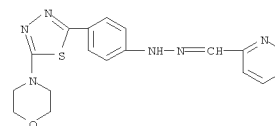
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 157662	A1	19821201	DD 1981-228757	19810331
PRIORITY APPLN. INFO.:			DD 1981-228757	19810331

GI



AB The semicarbazones R1R2C:NN:CR3R4 and I-V [R1 and R2 = H, SH, CN, Me, pyridyl, pyridyl N-oxide, N-alkylpyridinium, quinolyl, quinolyl N-oxide, etc.; R3 and R4 = H, OH, SH, thioalkyl, morpholino, etc.; R5 = alkyl; X = O or S; Y = O or NN:C(NH2)2] are plant virucides. Thus, quinoline-4-aldehyde S-ethylisothiosemicarbazone [66049-04-5] (2 + 10-3 mol/L) decreased the concentration of potato X virus in secondarily-infected Nicotiana tabacum leaves.
 IT 85260-80-6
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L10 ANSWER 38 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 study, unclassified); BIOL (Biological study)
 (virucide, for plants)
 RN 85260-80-6 CAPLUS
 CN 2-Pyridinecarboxaldehyde, 2-[4-[5-(4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



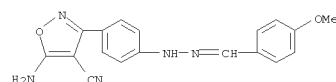
L10 ANSWER 39 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1982:406285 CAPLUS
 DOCUMENT NUMBER: 97:6285
 ORIGINAL REFERENCE NO.: 97:1219a,1222a
 TITLE: Substituted 5-amino-4-cyanoisoxazoles
 INVENTOR(S): Willitzer, Horst; Tonew, Marion
 PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Ger. Dem. Rep.
 SOURCE: Ger. (East), 7 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 152786	A1	19811209	DD 1980-223507	19800826
PRIORITY APPLN. INFO.:			DD 1980-223507	A1 19800826

OTHER SOURCE(S): CASREACT 97:6285
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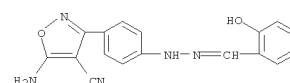


AB I (R = alkyl, aralkyl, aryl, arylmethyleamino; R1 = H, alkyl, aryl, aralkyl) were prepared and tested as virucides. Thus, 4-MeNH6H4C(CN):C(CN)2 in DMF was cyclized with aqueous NH2OH-KOH to give II.
 IT 81961-28-6 81961-29-7
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (virucidal activity of)
 RN 81961-28-6 CAPLUS
 CN 4-Isioxazolecarbonitrile, 5-amino-3-[4-[2-[(4-methoxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

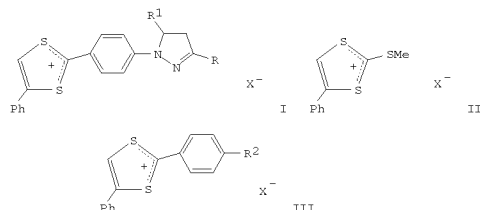


RN 81961-29-7 CAPLUS
 CN 4-Isioxazolecarbonitrile, 5-amino-3-[4-[2-[(2-hydroxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

L10 ANSWER 39 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L10 ANSWER 40 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1981:620001 CAPLUS
 DOCUMENT NUMBER: 95:220001
 ORIGINAL REFERENCE NO.: 95:36709a,36712a
 TITLE: Electrophilic substitution of N-aryl-2-pyrazolines:
 reaction with 1,3-dithioles
 AUTHOR(S): Gella, I. M.; Vakula, V. N.; Orlov, V. D.
 CORPORATE SOURCE: Khar'k. Nauchno-Issled. Inst. Endokrinol. Khim.
 Gorm.,
 SOURCE: USSR
 Khimiya Geterotsiklicheskikh Soedinenii (1981), (9),
 1245-50
 CODEN: KGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 95:220001
 GI

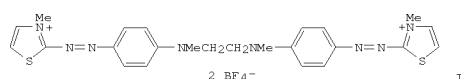


AB Pyrazolylphenyldithiolium salts I (R = Me, R1 = Ph, X = I, ClO4; R = Ph,
 R1 = H, X = I; R = R1 = Ph, X = I, ClO4; R = PhCH:CH, R1 = Ph, X = ClO4)
 were obtained in 48-85% yields by electrophilic substitution of an
 appropriate arylpyrazoline by a phenyldithiolium salt II. Condensing II
 with PhNMe2 and PhCH:NNHMe gave 87 and 90% III (X = I, ClO4, R2 = NMe2)
 and 84% III (X = ClO4, R2 = NMe:CHPh).
 IT 79913-17-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 79913-17-0 CAPLUS
 CN 1,3-Dithiol-1-ium,
 2-[4-[1-methyl-2-(phenylmethylene)hydrazinyl]phenyl]-4-
 phenyl-, perchlorate (1:1) (CA INDEX NAME)
 CM 1
 CRN 79913-16-9
 CMF C23 H19 N2 S2

L10 ANSWER 41 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1980:130534 CAPLUS
 DOCUMENT NUMBER: 92:130534
 ORIGINAL REFERENCE NO.: 92:21285a,21288a
 TITLE: Spin-dyeing polymers or mixed polymers of
 acrylonitrile
 INVENTOR(S): Haehnke, Manfred; Mohr, Reinhard; Hohmann, Kurt
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 80 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

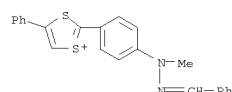
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2822913	A1	19791129	DE 1978-2822913	19780526
DE 2822913	C2	19820819		
JP 54156878	A	19791211	JP 1979-64096	19790525
JP 63031591	B	19880624		
GB 2022099	A	19791212	GB 1979-18304	19790525
GB 2022099	B	19821006		
BE 876584	A1	19791128	BE 1979-195425	19790528
FR 2426752	A1	19791221	FR 1979-13466	19790528
FR 2426752	B1	19850816		
US 4557732	A	19851210	US 1983-538800	19831004
US 4607071	A	19860819	US 1985-734442	19850515
PRIORITY APPLN. INFO.:			DE 1978-2822913	A 19780526
			US 1979-40760	A1 19790521
			US 1981-225851	A1 19810116
			US 1982-420516	A2 19820920
			US 1983-538800	A1 19831004

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 92:130534
 GI



AB Acrylic fibers were dyed fast shades by the addition to the spinning
 bath of
 cationic dyes having a migration factor (M) ≤20, a combination number
 (K) <2.5, and a cation weight >310. These dyes show little bleeding in
 coagulation, drawing, and washing. Thus, 2-8 parts 5% solution of dye
 (I)
 [72971-14-3], (M = 2, K = 1-2, cation weight 492) was added to 100 parts
 28% DMF solution of 94:5:1 acrylonitrile-Me acrylate-Na methallylsulfonate

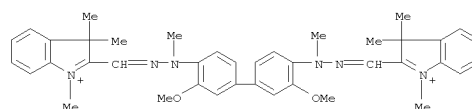
L10 ANSWER 40 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



CM 2
 CRN 14797-73-0
 CMF C1 O4



L10 ANSWER 41 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 polymer [26658-88-8], the blue-violet soln. was spun into 50% aq. DMF,
 stretched, and washed to give a deeply-dyed, bluish violet fiber with
 good fastness. Bleeding in the coagulation, drawing, and washing baths was
 0.08, 0.04, and <0.01%, resp.
 IT 72970-82-2 72970-88-8
 RL: USES (Uses)
 (spin dyeing of acrylic fibers by)
 RN 72970-82-2 CAPLUS
 CN 3H-Indolium,
 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis[(2-methyl-
 2-hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl-,
 bis[tetrafluoroborate(1-)] (9CI) (CA INDEX NAME)
 CM 1
 CRN 72970-81-1
 CMF C40 H46 N6 O2

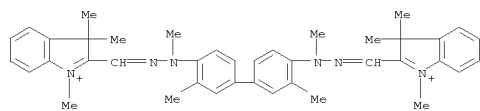


CM 2
 CRN 14874-70-5
 CMF B F4
 CCI CCS



RN 72970-88-8 CAPLUS
 CN 3H-Indolium,
 2,2'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis[(2-methyl-2-
 hydrazinyl-1-ylidene)methylidene]]bis[1,3,3-trimethyl-,
 bis[tetrafluoroborate(1-)] (9CI) (CA INDEX NAME)

CM 1
 CRN 72970-87-7
 CMF C40 H46 N6



CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

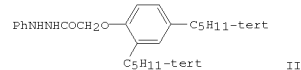
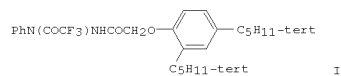


OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

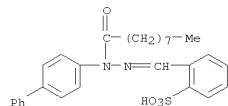
L10 ANSWER 42 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1980:119677 CAPLUS
DOCUMENT NUMBER: 92:119677
ORIGINAL REFERENCE NO.: 92:19363a,19366a
TITLE: Direct positive photographic materials
INVENTOR(S): Yasufuku, Yoshitaka
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54136821	A	19791024	JP 1978-45052	19780417
PRIORITY APPLN. INFO.:			JP 1978-45052	A 19780417

GI

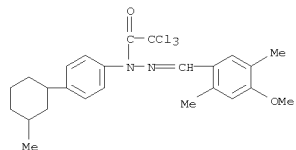


AB Internal latent image type direct-pos. Ag halide photog. emulsions contain fogging agents of the general formula $RN(COR_1)NR_2COR_3$ and/or $R_4N(COR_5)N=CHR_6$ [R, R₄ = aryl; R₁, R₅ = alkyl, aryl, PhO, alkoxy carbonyl; R₂ = H, COR₇ (R₇ = alkyl, aryl, PhO, alkoxy carbonyl); R₃ = H, alkyl, aryl, cycloalkyl, heterocyclic moiety; R₆ = aryl, heterocyclic moiety]. The photog. emulsions exhibit good shelf life. Thus, a 2% solution of I was added to an internal latent image type Ag halide emulsion containing a cyan coupler, a sensitizer dye, and other additives, then and the emulsion as coated on a paper support to give a direct-pos. photog. paper. The photog. paper was kept 24 h at 24° and 80% relative humidity, sensitometrically exposed, and developed to give D_{max} and D_{min} of 2.02 and 0.13, resp., vs. 1.75 and 0.14 for a control with II instead of I.
IT 73006-45-8P 73006-46-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 73006-45-8 CAPLUS
CN Nonanoic acid, 1-[1,1'-biphenyl]-4-yl-2-[(2-sulfo phenyl)methylene]hydrazide, sodium salt (1:1) (CA INDEX NAME)



● Na

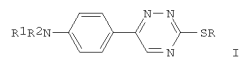
RN 73006-46-9 CAPLUS
CN Acetic acid, 2,2,2-trichloro-, 2-[(4-methoxy-2,5-dimethylphenyl)methylene]-1-[4-(3-methylcyclohexyl)phenyl]hydrazide (CA INDEX NAME)



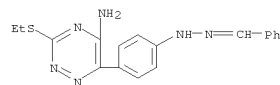
L10 ANSWER 43 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1980:42001 CAPLUS
DOCUMENT NUMBER: 92:42001
ORIGINAL REFERENCE NO.: 92:7013a,7016a
TITLE: 5-Amino-3-alkyl(or aralkyl)-mercapto-6-(p-substituted aminophenyl)-1,2,4-triazines
INVENTOR(S): Willitzer, Horst; Tonew, Marion; Tonew, Emil
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Zentralinstitut fuer Mikrobiologie und Experimentelle Therapie, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 136962	A1	19790808	DD 1978-205869	19780608
PRIORITY APPLN. INFO.:			DD 1978-205869	A1 19780608

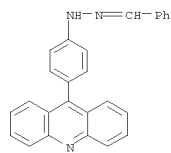
GI



AB The virustatic compds. I (R = alkyl, aralkyl; R₁ = optionally substituted alkyl, aralkyl, aryl, or PhCH₂N; R₂ = H, optionally substituted alkyl or aralkyl) were prepared by the cyclization of 4-R₁R₂NC₆H₄C(CN):NNH(SR):NH. Thus, 4-Me₂NC₆H₄C(CN):NNH(SMe):NH was heated in HOCH₂CH₂OH to give 87% I (R = R₁ = R₂ = Me), which had a therapeutic index of 32 against mengo virus.
IT 72447-33-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (virucidal activity of)
RN 72447-33-7 CAPLUS
CN Benzaldehyde, 2-[4-[5-amino-3-(ethylthio)-1,2,4-triazin-6-yl]phenyl]hydrazide (CA INDEX NAME)



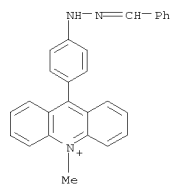
L10 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1975:428073 CAPLUS
 DOCUMENT NUMBER: 83:28073
 ORIGINAL REFERENCE NO.: 83:4489a,4492a
 TITLE: Reaction of acridinium salts with phenylhydrazones
 and
 phenylhydrazides
 AUTHOR(S): Chupakhin, O. N.; Postovskii, I. Ya.; Rusinov, V. L.;
 Charushin, V. N.
 CORPORATE SOURCE: Ural. Politekh. Inst. im. Kirova, Sverdlovsk, USSR
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1975), (3),
 387-91
 CODEN: KGSSAQ; ISSN: 0132-6244
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 83:28073
 GI For diagram(s), see printed CA Issue.
 AB Acridinium salts [I, R = H, Me, R1 = Ph, p-ClC6H4, p-BrC6H4,
 3,4-(MeO)2C6H3, X = Cl, I] were obtained in 30-82% yields by heating
 RR1C:NNHPH with an acridinium salt in DMF 2 hr at 120°. Addnl.
 obtained were 46-60% of the free bases [II, R = H, Me, R1 = Ph, p-ClC6H4,
 p-Me2NC6H4, 3,4-(MeO)2C6H3, 3,4-(HO)(MeO)C6H3, 2-furyl].
 IT 54132-12-6P 55754-19-3P 55754-20-6P
 55754-21-7P 55754-22-8P 55754-24-0P
 55754-25-1P 55754-26-2P 55754-27-3P
 55754-28-4P 55754-30-8P 55754-31-9P
 55826-99-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 54132-12-6 CAPLUS
 CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrochloride (1:1)
 (CA INDEX NAME)



● HCl

RN 55754-19-3 CAPLUS
 CN Benzaldehyde, 4-chloro-, 2-[4-(9-acridinyl)phenyl]hydrazone,
 hydrochloride
 (1:1) (CA INDEX NAME)

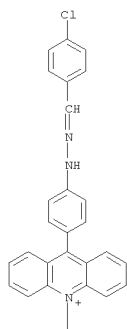
L10 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



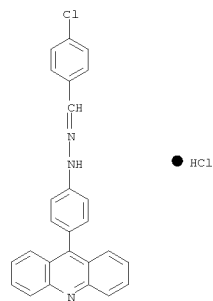
● I⁻

RN 55754-22-8 CAPLUS
 CN Acridinium, 9-[4-[2-[(4-chlorophenyl)methylene]hydrazinyl]phenyl]-10-
 methyl-, iodide (1:1) (CA INDEX NAME)

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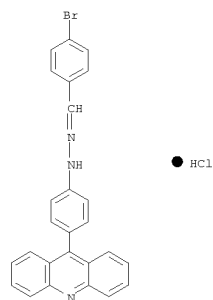


L10 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



● HCl

RN 55754-20-6 CAPLUS
 CN Benzaldehyde, 4-bromo-, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrochloride
 (1:1) (CA INDEX NAME)



● HCl

RN 55754-21-7 CAPLUS
 CN Acridinium, 10-methyl-9-[4-[2-(phenylmethylene)hydrazinyl]phenyl]-,
 iodide (1:1) (CA INDEX NAME)

L10 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

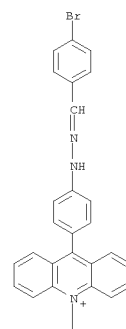
PAGE 2-A



● I⁻

RN 55754-24-0 CAPLUS
 CN Acridinium,
 9-[4-[2-[(4-bromophenyl)methylene]hydrazinyl]phenyl]-10-methyl-
 , iodide (1:1) (CA INDEX NAME)

PAGE 1-A



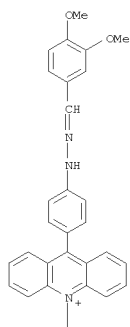
PAGE 2-A



● I⁻

RN 55754-25-1 CAPLUS
 CN Acridinium,
 9-[4-[2-[(3,4-dimethoxyphenyl)methylene]hydrazinyl]phenyl]-10-
 methyl-, iodide (1:1) (CA INDEX NAME)

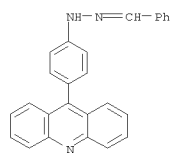
PAGE 1-A



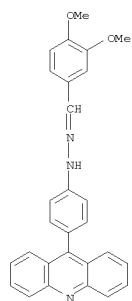
PAGE 2-A



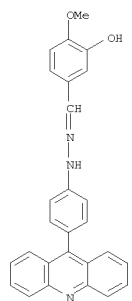
RN 55754-26-2 CAPLUS
CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



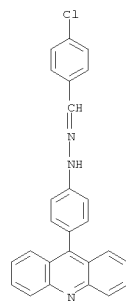
RN 55754-27-3 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



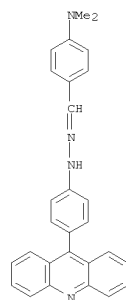
RN 55754-31-9 CAPLUS
CN Benzaldehyde, 3-hydroxy-4-methoxy-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



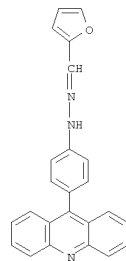
RN 55826-99-8 CAPLUS
CN 2-Furancarboxaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



RN 55754-28-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



RN 55754-30-8 CAPLUS
CN Benzaldehyde, 3,4-dimethoxy-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



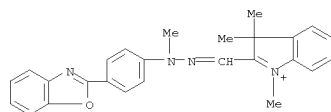
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 45 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1975:5369 CAPLUS
DOCUMENT NUMBER: 82:5369
ORIGINAL REFERENCE NO.: 82:913a,916a
TITLE: Cationic dyes
INVENTOR(S): Ohkawa, Masaaki; Konishi, Seizo
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49044029	A	19740425	JP 1972-88261	19720901
JP 51007567	B	19760309	JP 1972-88261	A 19720901

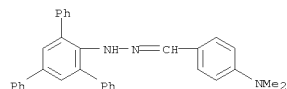
PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
AB Cationic dyes (I; R1, R4 = H, alkyl, halogen, alkoxy; R2 = alkyl, cycloalkyl, aralkyl, allyl; R3 = alkyl, X = O, NR3, Y = anion), dyeing polyacrylonitrile, acid-modified polyamides, and polyester fibers bright yellow shades, were prepared by coupling diazotized II (X, R4 = same as I)
I) with II (R1, R2 = same as I), and subsequent alkylation of the coupled compds. Thus, diazotized 2-(4-aminophenyl)benzoxazole was mixed dropwise with 1,3,3-trimethyl-2-methyleneindoline, the azo compound methylated with Me2SO4, and salted with NaCl to give cationic dye I (R1 = R4 = H, R2 = R3 = Me, X = O, Y = Cl) [52820-24-3].
IT 52820-24-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
RN 52820-24-3 CAPLUS
CN 3H-Indolium, 2-[[2-[4-(2-benzoxazolyl)phenyl]-2-methylhydrazinylidene]methyl]-1,3,3-trimethyl-, chloride (1:1) (CA INDEX NAME)



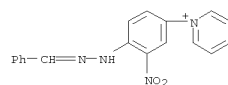
● Cl⁻

L10 ANSWER 47 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1968:402617 CAPLUS
DOCUMENT NUMBER: 69:2617
ORIGINAL REFERENCE NO.: 69:491a,494a
TITLE: Efficient method of preparing N-(2,4,6-tri-tert-butyl-phenyl)hydrazine. Extension to the preparation of N-(2,4,6-tri-phenylphenyl)hydrazine
AUTHOR(S): Rigaudy, Jean; Vernieres, Jean C.
CORPORATE SOURCE: Ecole Super. Phys. Chim. Ind., Paris, Fr.
SOURCE: Comptes Rendus des Seances de l'Academie des Sciences,
DOCUMENT TYPE: Serie C: Sciences Chimiques (1968), 266(11), 828-31
CORPORATE SOURCE: Journal
CODEN: CHDCAQ; ISSN: 0567-6541
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB An ether solution of I (R1 = R2 = H) was treated with NO2 to give I [(R1R2 =) N+, NO3-], which was treated with (MeO)2POH in the presence of NaOAc in ether to give 50% I [(R1R2 =) NP(O)(OMe)2], m. 93-4°. This compound was reduced with Zn in HOAc to give 80% I [R1 = H, R2 = NHP(O)(OMe)2], m. 147°, which was hydrolyzed with concentrated HCl in MeCN to give 70% I.HCl (R1 = H, R2 = NH2), m. 208°. Further hydrolysis with NaOH in dilute alc. gave I (R1 = H, R2 = NH2) (III), m. 160-1°. III is reduced with Zn in HOAc to give I (R1 = R2 = H) and couples with 1,2-naphthoquinone to give a mixture of I [(R1R2 =) 1-(2-hydroxynaphthyl)-imino], m. 176-7°, and I [(R1R2 =) 2-(1-hydroxynaphthyl)-imino], m. 172-3°. Similarly, II [(R1R2 =) N+, NO3-] reacts with (MeO)2PO- to give 90% II [(R1R2 =) NP(O)(OMe)2], which is successively reduced to II [R1 = H, R2 = NHP(O)(OMe)2], m. 160-1°, and converted into II (R1 = H, R2 = NH2) (IV), m. 122-3°. IV was condensed with p-Me2NC6H4CHO to give II (R1 = H, R2 = NCHC6H4NMe2-p), m. 188°, and with 1,2-naphthoquinone to give a mixture of II [(R1R2 =) 1-(2-hydroxynaphthyl)imino], m. 236°, and II [(R1R2 =) 2-(1-hydroxynaphthyl)imino], m. 241-2°. I [(R1R2 =) N+, NO3-] and II [(R1R2 =) N+, NO3-] reacts with N2H4.H2O to give I [(NR1R2 =) N3], m. 128-9°, and II [(NR1R2 =) N3], resp.
IT 18440-45-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
RN 18440-45-4 CAPLUS
CN Benzaldehyde, p-(dimethylamino)-, (5'-phenyl-m-terphenyl-2'-yl)hydrazone (8CI) (CA INDEX NAME)



● Cl⁻

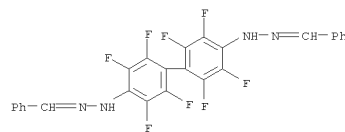
L10 ANSWER 46 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1972:448149 CAPLUS
DOCUMENT NUMBER: 77:48149
ORIGINAL REFERENCE NO.: 77:7975a,7978a
TITLE: N-Phenylpyridinium salts. 2. Reactivity of N-(3-nitro-4-chlorophenyl)pyridinium chloride
AUTHOR(S): Lipke, Bodo; Lachmann, Christel; Schmidt, Reinhard
CORPORATE SOURCE: Sek. Chem., Humboldt-Univ. Berlin, Berlin, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1972), 12(3), 103-4
CODEN: ZECEAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB The title compound (I) reacted with N2H4.H2O in boiling EtOH to give the hydrazino compound II only in small yields and as the benzylidene derivative
III. III was obtained in increased yields by reaction of I with PhCH:NNH2. I and PhNNH2 gave the triazolyl derivative IV. I and H2NNHCSNH2 or PhSH gave the corresponding thio ethers, which were cleaved with pyrrolidine to give 3,4-O2N(PhS)C6H3NH2 and 3,4-O2N(2-HO2CC6H4S)C6-H3NH2, resp. Similar cleavage of IV gave the expected 5-amino derivative V.
IT 73059-25-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
RN 73059-25-9 CAPLUS
CN Pyridinium, 1-[3-nitro-4-[2-(phenylmethylene)hydrazinyl]phenyl]-, iodide (1:1) (CA INDEX NAME)



● I⁻

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L10 ANSWER 48 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:51263 CAPLUS
DOCUMENT NUMBER: 62:51263
ORIGINAL REFERENCE NO.: 62:9040b-e
TITLE: Reactions of decafluorobiphenyl
AUTHOR(S): Yakobson, G. G.; Shteingarts, V. D.; Miroshnikov, A. I.; Vorozhtsov, N. N., Jr.
CORPORATE SOURCE: Inst. Org. Chem., Novosibirsk
SOURCE: Doklady Akademii Nauk SSSR (1964), 159(5), 1109-12
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB C6F5Cl heated with Cu bronze 40 hrs. at 320-60° gave 73% (C6F5)2 (I), m. 67.5-68°. This heated in an autoclave with 30% NH4OH 6 hrs. at 130° gave octafluorobenzidine (II), m. 173-4°. I refluxed 16 hrs. with N2H4 in aqueous EtOH gave 4,4'-dihydrazinyloctafluorobiphenyl, m. 208-9° which refluxed with Fehling solution gave octafluorobiphenyl, m. 82-3.5°. I and aqueous Me2NH in EtOH in 3 hrs. at 80° gave 4,4'-bis(dimethylamino)octafluorobiphenyl, m. 107-8°. II diazotized in AcOH-H2SO4 coupled with 2-naphthol to a red dye, C32H14F8N4O2, m. 310-11.5°; naphthionic acid gave an analog of Congo red. Refluxing (CF3CO)2O in CH2Cl2 20 min. with 90% H2O2 followed by addition of II in CH2Cl2 and refluxing 2 hrs. gave after a repetition of the treatment 86% 4,4'-dinitrooctafluorobiphenyl, m. 83-4.5°. I refluxed 1 hr. with KOH in tert-BuOH gave 68% 4,4'-dihydroxyoctafluorobiphenyl, m. 198.5-9.5°; also formed (85%) from I and aqueous KOH in 7.5 hrs. at 160°. I refluxed 6 hrs. with MeONa-MeOH gave 86% 4,4'-dimethoxyoctafluorobiphenyl, m. 83-4.5°. Spectral data (Ir, uv) on the products were given.
IT 1887-72-5P, Benzaldehyde, (octafluoro-4,4'-biphenylene)dihydrazone
RL: PREP (Preparation)
RN 1887-72-5 CAPLUS
CN Benzaldehyde, (octafluoro-4,4'-biphenylene)dihydrazone (7CI, 8CI) (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)

L10 ANSWER 49 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1963:447993 CAPLUS
DOCUMENT NUMBER: 59:47993
ORIGINAL REFERENCE NO.: 59:86214-b,8622a
TITLE: Aromatic polyfluoro compounds. XIV. Phenylation of hexafluorobenzene and some replacement reactions of 2,3,4,5,6-pentafluorobiphenyl
AUTHOR(S): Chaundhry, M. T.; Stephens, R.
CORPORATE SOURCE: Univ. Birmingham, UK
SOURCE: Journal of the Chemical Society (1963), (Aug), 4281-3
CODEN: JCSO9A; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB of. CA 59, 5051h. The phenylation of hexafluorobenzene (I) gave a mixture of 2,3,4,5,6-pentafluorobiphenyl (II) and 2',3',5',6'-tetrafluoro-p-terphenyl (III). A solution of 6.4 g. PhLi in 60 ml. ether was added to a solution of 13.2 g. I in 40 ml. ether at a rate sufficient to maintain gentle refluxing. The mixture was then stirred for 3 hrs., diluted with 200 ml. H₂O, and the ether layer separated to give 6.3 g. II, m. 110-2°, λ 2725 Å. (ε 7.6 + 103). The aqueous layer and precipitate on extraction with ether gave 2 g. III, m. 259-60°. III was also prepared by heating a mixture of 3 g. 1,4-dibromotetrafluorobenzene, 6 g. bromobenzene, and 10 g. copper bronze in a sealed tube at 200° for 24 hrs. to give 0.5 g. III. A expected, II reacted with nucleophilic reagents to give products in which the F atom para to the phenyl group was replaced. A mixture of 2 g. II, 6 ml. hydrazine hydrate, 12 ml. EtOH, and 6 ml. H₂O was refluxed 12 hrs., diluted with 25 ml. H₂O, and extracted with CH₂Cl₂ 16 hrs. to give 0.9 g. 2,3,5,6-tetrafluoro-4-hydrazinobiphenyl (IV), m. 139-40°, λ 2755 Å. (ε 4.2 + 104), ν 3300, 3200, 1570, and 1560(NH), 1640, 1610, and 1500 (fluorinated aromatic nucleus), 720 and 690 cm.⁻¹ (Ph). On bubbling HCl gas into a solution of 0.5 g. IV in 10 ml. ether for 0.5 hr., 0.4 g. IV.HCl, m. 245-6°, was obtained. Refluxing a mixture of 0.2 g. IV, 3 ml. EtOH, and 1 ml. BzH for 10 min. gave 0.25 g. hydrazone (V), m. 210-1°. V (2.5 g.) on refluxing with 5 g. Zn dust and 30 ml. AcOH for 3 hrs., dilution with 10N H₂SO₄, and steam distillation gave 0.5 g. 4-amino-2,3,5,6-tetrafluorobiphenyl (VI), m. 90-1°, λ 2625 Å. (ε 1.95 + 104). VI was also prepared by heating a mixture of 2 g. II, 6 ml. aqueous NH₃ (d. 0.88), and 10 ml. EtOH at 160° for 16 hrs., diluting with H₂O, and extracting with CH₂Cl₂ for 16 hrs. to give 1.4 g. VI, m. 86-8°. Both specimens of VI showed identical infrared spectrum: ν 3250 and 3350 (NH), 1650 and 1505 (fluorinated aromatic ring), and 720 and 690 cm.⁻¹ (Ph). On refluxing, 0.5 g. VI, 1 ml. Ac₂O, and 0.1 ml. H₂SO₄ gave 0.3 g. acetyl derivative, m. 125-6°. Reduction of 6 g. IV with 600 ml. refluxing Fehling

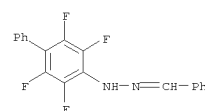
L10 ANSWER 50 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1962:79383 CAPLUS
DOCUMENT NUMBER: 56:79383
ORIGINAL REFERENCE NO.: 56:154861,15487a-4,15488a-b
TITLE: 5-Cyanomethylene-2-oxo-3-pyrrolines
INVENTOR(S): Carboni, Rudolph A.
PATENT ASSIGNEE(S): E. I. du Pont de Nemours & Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3013013	-----	19611212	US 1959-808587	19590424

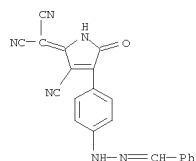
PRIORITY APPLN. INFO.: US 19590424

GI For diagram(s), see printed CA Issue.
AB A series of new 5-cyanomethylene-2-oxo-3-pyrroline dyes (I) was prepared (R in I = H or an alkyl group, X and X' = CN, SO₃R, CO₂R, or CONR₂, and Q = a monovalent organic radical of a compound which will condense with a diazonium salt). (NC)2C:C(NH2)CH2CN (II) 132, (CO₂Et)2 160, and absolute MeOH 793 added to NaCMe 108 in absolute MeOH 595, stirred 2 hrs. at room temperature, concentrated to 2/3 volume, diluted with 2 vols. dry C₆H₆, and filtered yielded the di-Na salt (III) 203 parts of 4-cyano-5-dicyanomethylene-3-hydroxy-2-oxo-3-pyrroline (IV). The III in the min. amount of H₂O treated with excess HCl and filtered yielded the mono-Na salt dihydrate (V.2H₂O) of IV, bright yellow precipitate p-MeC₆H₄SO₂CH₂CN (VI) 390 added at 0° to Na 23 in EtOH 3947, refluxed 2.5 hrs., kept at room temperature overnight, diluted with H₂O 20,000 acidified with concentrated HCl, and filtered yielded 2-amino-1-cyano-1,3-bis(p-tolylsulfonyl)propene (VII) 245 parts, m. 194.5-5.5° (EtOH). VI 700 and (CO₂Et)2 263 refluxed 1.25 hrs. with Na 93 in EtOH 3947, diluted with C₆H₆ 8794, filtered, the residual bright yellow, crystalline di-Na salt 540 of 5-[6-cyano-α-(p-tolylsulfonyl)methylene] - 3 - hydroxy-2-oxo-4-(p-tolylsulfonyl)-3-pyrroline (VIII) suspended in H₂O 5000, and treated slowly with stirring with concentrated HCl 357 yielded the pale yellow, crystalline mono-Na salt (IX) of VIII. V.2H₂O 10, Et₂NPh 191, and POCl₃ about 25 heated a few min. at 80-100° gave blue-green 4-cyano-5-dicyanomethylene-3-(p-dimethylaminophenyl)-2-oxo-3-pyrroline (X). X 2 in HCONMe₂ 284 added with stirring to sulfonated lignin dispersant 2 in H₂O 10,000 and 5% aqueous NaHCO₃ 200, heated at 80-100°, and swatches 10 parts each of cellulose acetate and nylon fabrics added gave a red-blue shade on the cellulose acetate and a medium brown shade on nylon; both dyed fabrics turned bright blue when treated with 5% aqueous HCl and retained the color after rinsing and drying. V.2H₂O 50 in MeCN 157 treated with (COCl)₂ 2 60, refluxed 1 hr. with stirring, and filtered yielded 3-chloro-4-cyano-5-dicyanomethylene-2-oxo-3-pyrroline (XI) 36 parts, buff-colored crystals. XI 15 in EtOAc 2250 treated with Me₂NPh 48 kept 2 hrs. at room temperature, and filtered yielded X 20 parts. XI

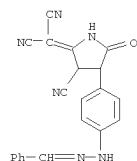
L10 ANSWER 49 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
soln. (1 hr.) and steam distn. gave 3.1 g. 2,3,5,6-tetrafluorobiphenyl (VII), m. 103-5°, λ 2400 Å. (ε 8.3 + 103), ν 3050 (CH:), 1625 and 1495 (fluorinated aromatic), 715 and 695 cm.⁻¹ (Ph). The F19 nuclear magnetic resonance (n.m.r.) spectrum in Me₂CO confirmed its structure by showing only 2 multiplets of equal intensity due to only 2 expected magnetically different kinds of F atoms; the 2 isomers should display 4. A mixt. of 12 g. II in 30 ml. HCONMe₂ and a suspension of 45 g. NaHS in 85 ml. HCONMe₂ was heated at 110° for 5 min., dild. with 300 ml. H₂O, and extd. with ether to give 8 g. 2,3,5,6-tetrafluoro-4-mercaptobiphenyl, m. 118-20°, λ 2675 Å. (ε 2.8 + 104), ν 3050 (CH:), 2600 (SH), and 1630, 1580, 1495, and 1480 cm.⁻¹ (fluorinated aromatic). The F19 n.m.r. spectrum in Me₂CO showed 2 multiplets of equal intensity, thus confirming its structure. Refluxing 3.3 g. thiol with a suspension of 25 g. Raney Ni (grade W4) for 2 hrs. gave 1.6 g. VII.
IT 2729-49-9P, Benzaldehyde, (2,3,5,6-tetrafluoro-4-biphenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 2729-49-9 CAPLUS
CN Benzaldehyde, 2-(2,3,5,6-tetrafluoro[1,1'-biphenyl]-4-yl)hydrazone (CA INDEX NAME)



L10 ANSWER 50 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
15 in EtOAc 450 treated with (p-Me₂NC₆H₄)2C:CH₂ 20 in EtOAc 900, kept 1.5 hrs. at room temp., and filtered yielded 3-[(p-Me₂NC₆H₄)2C: CH] analog 28 parts of X, λ 759 mμ (EtOH). Similarly were prepd. the 3-(PhNHCOCH₂Et) analog of X, λ 500 mμ (EtOH), orange in EtOH, from XI and 3-(CH₃CH₂CPhNHPh, and the 3-(3-methyl-1-phenyl-5-pyrazolon-4-yl) analog of X, λ 568 mμ, purple in EtOH, from XI and 3-methyl-1-phenyl-5-pyrazolone. XI 204 in EtOAc 1800 treated with NaCH(CN)2 yielded the Na salt 168 parts of the 3-[(NC)2CH] analog of X, brick-red solid, orange in H₂O. XI 102, α-methylfuran 184, and HCONMe₂ 945 kept 18 hrs. at room temp., dild. with H₂O 2500, and filtered gave the 3-(5-methyl-2-furyl) analog of X, orange, m. above 250°, bright yellow in EtOH and MeCN. XI 10 in EtOAc 1800 and indole 5 parts warmed a few min. at 50-60° yielded the bright red 3-(3-indolyl) analog of X, λ 525 and 370 mμ. XI 10 in MeCN 1566 with 2-methylene-1,3,3-trimethylindoline (XII) yielded similarly at 50-60° the purple 3-(1,3,3-trimethyl-2-indolinylidene) analog of X, λ 591 and 360 mμ. XI 408 and PhNHCH₂CHPh 392 in MeCN 10,000 stirred a few min. at room temp. gave crude 3-(p-PhCH:NNHC₆H₄) analog of X, green in AcOH, λ 605, 580, 455, and 346 mμ (AcOH). [EtPhN(CH₂)2NMe₃]Cl 480 and XI 408 in MeCN 10,000 at room temp. gave 2-[N-ethyl-N-(p-(4-cyano-5-dicyanomethylene-2-oxo-3-pyrroline-3-yl)phenyl)amino]ethyltrimethylammonium chloride, λ 586 and 395 mμ, dyed polyethylene terephthalate fibers lavender-blue. EtO₂C(NC)C:C(NH2)CH₂CO₂Et 184 added at 0° to Na 52 in abs. EtOH 553, kept 3 hrs. at room temp., poured into C₆H₆ 2640, filtered, and evapd. gave the di-Na salt 340 parts of 5-(α-cyano-α-ethoxycarbonylmethylene)-4-ethoxycarbonyl-3-hydroxy-2-oxo-3-pyrroline (XIII); a portion 170 treated with POCl₃ 200 in MeCN 391 at 0°, kept at room temp. overnight, and filtered gave the 3-Cl analog (XIV) of XIII. XIV 5 in MeCN 780 treated with XII 5 yielded the reddish blue 3-(1,3,3-trimethyl-2-indolinylidene) analog of XIV, λ 582, 550, and 360 mμ. II 132 and BzCO₂Et 178 added to Na 46 in EtOH 3947, poured after 1 hr. into H₂O 20,000, and acidified with aq. HCl yielded bright yellow 4-cyano-5-dicyanomethylene-2-oxo-3-phenyl-3-pyrroline (XV) 90 parts, m. 296-8° (AcOH) (decomp.). Na salt 155 of II and MeNHCO₂Me 117 in MeCN 1957 parts refluxed 16 hrs. with stirring, filtered, evapd., and the residue treated in the usual manner with POCl₃ and Me₂NPh gave the 3-(p-Me₂NC₆H₄) analog of XV, a bright blue dye. IX 410 in MeCN 1957 treated slowly with stirring with (COCl)₂ 2 298, kept 1 hr. at room temp., filtered, and evapd. yielded the cryst. 3-chloro-5-[α-cyano-α-(p-tolylsulfonyl)methylene]-2-oxo-4-(p-tolylsulfonyl)-3-pyrroline (XVI) 161 parts. XVI 50 in EtOAc 900 treated with Me₂NPh about 50, kept 4 hrs. at room temp., and filtered yielded the 3-(p-Me₂NC₆H₄) analog of XVI, iridescent green-gold needles. XVI 5 in MeCN about 50 contg. a trace of C₅H₅N treated with CH₂(CN)2 about 5 parts yielded the 3-(NC)2CH analog of XVI, λ 505 and 480 mμ.
IT 94864-30-9P, Benzaldehyde, [p-(4-cyano-5-(dicyanomethylene)-2-oxo-3-pyrroline-3-yl)phenyl]hydrazone
856598-94-2P, 3-Pyrroline-Δ², α-malononitrile, 4-[p-(benzylidenehydrazino)phenyl]-3-cyano-5-oxo-
RL: PREP (Preparation)
(preparation of)
RN 94864-30-9 CAPLUS
CN Propanedinitrile, 2-[3-cyano-1,5-dihydro-5-oxo-4-[4-(2-phenylmethylene)hydrazinyl]phenyl]-2H-pyrrol-2-ylidene]- (CA INDEX NAME)

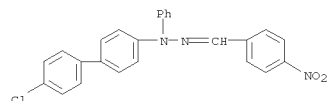


RN 856598-94-2 CAPLUS
CN Propanedinitrile, 2-[3-cyano-5-oxo-4-[4-(2-phenylmethylene)hydrazinyl]phenyl]-2-pyrrolidinylidene]- (CA INDEX NAME)

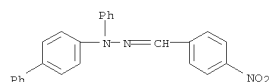


OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

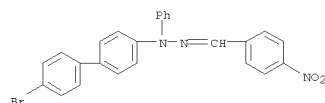
L10 ANSWER 51 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1960:68058 CAPLUS
DOCUMENT NUMBER: 54:68058
ORIGINAL REFERENCE NO.: 54:13058a-e
TITLE: Chemistry of free radicals of the hydrazine series. II. Synthesis and properties of α -(p-biphenyl)- α -phenyl- β -picrylhydrazyl and its halogen derivatives
AUTHOR(S): Postovskii, I. Ya.; Matevosyan, R. O.; Chirkov, A. K.
SOURCE: Zhurnal Obshchei Khimii (1959), 29, 3106-13
CODEN: ZOKH44; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 54, 1372g. Heating p-PhC6H4NH2 with o-ClC6H4 CO2Na in iso-AmOH with powdered Cu and K2CO3 5-6 hrs. gave p-PhC6H4NHC6H4CO2H-o, 63%, m. 250-5°. Similarly were prepared p-ClC6H4C6H4 NHC6H4CO2H-o, 55-60%, m. 237-40°, and the p-Br analog, 60-6%, m. 240-5°. Decarboxylation of these above the m.p. gave: 79% p-PhC6H4NHPH, m. 110-2°; p-ClC6H4C6H4NHPH, 75%, m. 149-50°; p-Br analog, 75%, m. 142-5°. These (in alc.-dioxane mixture containing HCl) were treated with NaNO2 to yield p-PhC6H4N(NO)Ph, 55-60%, m. 117-8°; p-ClC6H4C6H4N(NO)Ph, 60%, m. 110-2°; p-Br analog, 60%, m. 105-7°. These were reduced with ZnAcOH in alc.-dioxane to: 25-30% p-PhC6H4NPHNH2, m. 97-8°; p-ClC6H4C6H4NPHNH2, 30%, m. 133-5°; p-Br analog, 25-30%, m. 125-7°; these were converted to the corresponding hydrazones with p-O2NC6H4CHO, m. 123-5°, 151-3°, and 161-2°, resp. Treatment of the above hydrazines with picryl chloride in CHCl3 gave a precipitate of the hydrazine HCl salts while the filtrate on evaporation gave highly colored [2,4,6-(O2N)3C6H2NHNHPH] (R shown): p-PhC6H4, 65%, red, m. 165-7°; p-ClC6H4C6H4, 68%, brown, m. 172-5°; p-Br analog, 65%, brown, m. 180-1°. Treatment of these with 10 parts PbO2 and an equimolar amount of Na2 SO4 in dry CHCl3 gave in 1-1.5 hrs. a solution of the free radicals, which after chromatography on Al2O3 in CHCl3 gave 2,4,6-(O2N)3C6H2N(NPH)• free radicals (R given): p-PhC6H4, 2 forms (a less soluble black-blue form, 10-15%, m. 90-1°, and a more soluble brown form, 25-30%, m. 160-1°); p-ClC6H4C6H4, 45-50%, nearly black, m. 171-3°; p-Br analog, 40-50%, nearly black, m. 165-6°. They were rapidly reduced with hydroquinone to the original hydrazines. Measurements of paramagnetic electronic resonance in these radicals gave the following ΔH in oersteds: 1.11, 1.22 and 1.28, resp. The small effect of substituents was discussed at length.
IT 102884-65-1 102893-18-5 113751-32-9
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 102884-65-1 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-(4'-chloro[1,1'-biphenyl]-4-yl)-2-phenylhydrazone (CA INDEX NAME)



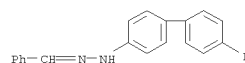
L10 ANSWER 51 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 102893-18-5 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[1,1'-biphenyl]-4-yl)-2-phenylhydrazone (CA INDEX NAME)



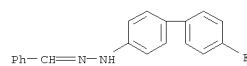
RN 113751-32-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-(4'-bromo[1,1'-biphenyl]-4-yl)-2-phenylhydrazone (CA INDEX NAME)



L10 ANSWER 52 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1960:6814 CAPLUS
DOCUMENT NUMBER: 54:6814
ORIGINAL REFERENCE NO.: 54:1372g-i,1373a
TITLE: Chemistry of free radicals of the hydrazine series. I. Some derivatives of α , α -diphenyl- β -picrylhydrazyl
AUTHOR(S): Matevosyan, R. O.; Postovskii, I. Ya.; Chirkov, A. K.
SOURCE: Zhurnal Obshchei Khimii (1959), 29, 858-64
CODEN: ZOKH44; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Nitrosation of appropriate amines in concentrated HCl-EtOH gave 84% p-FC6H4N(NO)Ph, m. 48-51° and 80-5% p-ClC6H4N(NO)Ph, m. 84-7°. These with Zn dust in EtOH at 0° were treated with AcOH, heated to boiling and filtered. Concentration and addition of excess concentrated HCl gave 30-40% p-FC6H4NPHNH2.HCl, m.p. indefinite, and the p-Cl analog, 30-5%. These with NaOH gave the free hydrazines p-FC6H4NPHNH2, bl 167°, and the p-Cl analog, bl 186-8°. These formed the benzylidene derivs., m. 98-100° and 119-21°, resp., and p-nitrobenzylidene derivs., m. 164-6° and 150-1°, resp. Treatment of these hydrazines with 2,4,6-trinitroanisole in CHCl3, followed by concentration and treatment with hot EtOH gave p-FC6H4NPHNHC6H2(NO2)3-2,4,6, red prisms, m. 177-9°, and the p-Cl analog, red prisms, m. 182-4°; the p-Br analog, orange prisms, m. 179-80°. These with PbO2 and Na2SO4 were shaken in CHCl3 to yield violet solns. which, after filtration, concentration and addition of Et2O, gave the free radicals p-FC6H4NPHN[C6H2(NO2)3-2,4,6], m. 163-4° (paramagnetic resonance g-factor 2.000, ΔH 4.1 oe., A 20); p-Cl analog, m. 161-2° (2.001, 1.2, 290); p-Br analog, m. 153-4° (2.002, 2.2, 170). The greatest exchange force interaction was thus found in the unsubstituted hydrazyl and the least in the F-derivative, which thus had the greatest localization of the unshared electron in the group of the hydrazyl radicals.
IT 1544-13-4
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 1544-13-4 CAPLUS
CN Benzaldehyde, 2-(4'-fluoro[1,1'-biphenyl]-4-yl)hydrazone (CA INDEX NAME)

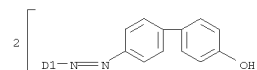
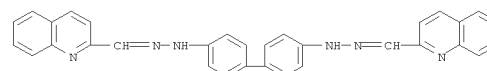


L10 ANSWER 53 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1960:6813 CAPLUS
 DOCUMENT NUMBER: 54:6813
 ORIGINAL REFERENCE NO.: 54:1372f-g
 TITLE: Formazans in the proof of structure of ozone-oxidized carbohydrates
 AUTHOR(S): Meister, Laszlo
 CORPORATE SOURCE: Tech. Univ., Budapest
 SOURCE: Advances in Chemistry Series (1959), No. 21, 195-99
 CODEN: ADCSAJ; ISSN: 0065-2393
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB A review with 15 references.
 IT 1544-13-4 (Derived from data in the 6th Collective Formula Index (1957-1961))
 RN 1544-13-4 CAPLUS
 CN Benzaldehyde, 2-(4'-fluoro[1,1'-biphenyl]-4-yl)hydrazone (CA INDEX NAME)



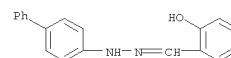
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
 (5 CITINGS)

L10 ANSWER 54 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1958:72353 CAPLUS
 DOCUMENT NUMBER: 52:72353
 ORIGINAL REFERENCE NO.: 52:128671,12868a
 TITLE: Formazyl compounds. IX. Coupling of heterocyclic-substituted pyruvic acid esters with diazotized bases
 AUTHOR(S): Ried, Walter; Muller, Walter
 CORPORATE SOURCE: Univ. Frankfurt a. M., Germany
 SOURCE: Justus Liebig's Annalen der Chemie (1958), 611, 105-7
 CODEN: JLACBF; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 52:72353
 AB cf. C.A. 50, 234h. RCH2COCO2Et [R = 2-benzothiazolyl (I) or 2-quinolinyl (II)] and diazotized benzidine (III) form in NH3-MeOH-H2O mixture the diformazan (p-HOC6H4C6H4N2CR:NNHC6H4)2 o-Tolidine (IV) and o-dianisidine (V) react similarly. The reaction involves coupling of a bis(diazonium) ion with 2 mols. of RCH2COCO2H, ammonolysis forming (CONH2)2 and EtOH, coupling with 2 more bis(diazonium) ions and hydrolysis of the end diazonium groups. The following diformazans are reported (reagents used, and m.p. given): I, III, over 350°; I, IV, 201-2°; I, V, 238°; II, III, 260-5°; II, IV, 210-14°; II, IV, 210-11°.
 IT 108624-92-6P, Hydrazine, 1,1'-(4,4'-biphenylene)bis[2-[(4'-hydroxy-4-biphenylazo)-2-quinolylmethylene]-RL: PREP (Preparation) (preparation of)
 RN 108624-92-6 CAPLUS
 CN Hydrazine, 1,1'-(4,4'-biphenylene)bis[2-[(4'-hydroxy-4-biphenylazo)-2-quinolylmethylene]- (6CI) (CA INDEX NAME)

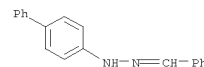


L10 ANSWER 55 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1958:40445 CAPLUS
 DOCUMENT NUMBER: 52:40445
 ORIGINAL REFERENCE NO.: 52:7233f-4,7234a-d
 TITLE: Biphenyl derivatives. I. Dialkylaminoethyl esters of diphenyl carboxylic acid derivatives
 AUTHOR(S): Niwa, Hiroshi
 CORPORATE SOURCE: Tohoku Coll. Pharm., Sendai
 SOURCE: Tohoku Yakka Daigaku Kiyo (1957), 4, 1-18
 CODEN: TYDKAG; ISSN: 0372-347X
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB 4-Chloro-4'-aminobiphenyl (2 g.) in 20 cc. 10% HCl is diazotized with 0.8 g. NaNO2 in 5 cc. H2O at below 5°, stirred 30 min., treated with CuCN solution prepared from 3 g. NaCN and 2.5 g. CuSO4 at 25° 2 hrs., and kept overnight, the precipitate collected, dissolved in C6H6 or MeOH, and filtered, and the filtrate condensed and recrystd. from dilute alc. to afford 2 g. 4-chloro-4'-cyanobiphenyl, m. 129-30°. Similarly were prepared the following 4-RC6H4C6H4R'-4 [R, R', and m.p. (recrystn. solvent)]
 given): Br, CN, 144° (alc.); NH2, CN, 157° (PhMe); CH2CH2SH, CN, -(MeOH); NO2, CO2H, 336-8° (AcOH) [in this case, 2-nitrobiphenyl-4'-carboxylic acid, m. 254° (alc.), is also obtained]; Cl, CO2H, 287-9° (AcOH); Br, COOH, 303-5° (AcOH); NH2, CO2H, 227° (MeOH); CH2CH2SH, CONH2, 245-6° (alc.).
 p-PhC6H4COCl (1 g.) in 10 cc. C6H6 is heated with 1.5 g. XCH2CH2OH (X = morpholino) on an H2O bath 3 hrs., cooled, filtered, the filtrate condensed, alkalinized with 2% NaOH solution, extracted with ether, dried with K2CO3, HCl gas passed, and the precipitate recrystd. from acetone-alc. to give 0.5 g. p-PhC6H4CO2CH2CH2X.HCl (I), m. 176-8°. Similarly were prepared the following 4-RC6H4C6H4CO2R'-4.HCl (R, R', and m.p. given).
 H, CH2CH2NET2, 183°; H, CH2CH2Y (Y = piperidino), 185-6° (acetone-alc.); H, 2-diethylaminocyclohexyl, 160-1° (acetone-EtO-Ac); Cl, CH2CH2NET2, 194-5° (alc.); Cl, CH2CH2Y (II), 206-7° (alc.); Cl, 2-diethylaminocyclohexyl, 156° (acetone-EtO-Ac); Br, CH2CH2NET2, 202-4° (alc.); Br, CH2CH2X, 221-3° (acetone); Br, CH2CH2Y (III), 216-17° (acetone-alc.); NH2, CH2CH2NET2, 186-8°; NH2, CH2CH2X, 147-9° (acetone-alc.); NH2, CH2CH2Y, 211-12° (acetone-alc.).
 4-BrC6H4C6H4COCl-4 (1 g.) in C6H6 is heated with 1 g. Et2NCH2CH2SH on H2O bath 4 hrs., cooled, filtered, the filtrate condensed, 10 cc. 2% NaOH added, extracted with ether, HCl gas passed, and the precipitate recryst. from alc. to give 0.4 g. 4-ClC6H4C6H4COSCH2CH2NET2-4.HCl, m. 198-201°. Similarly was prepared 4-BrC6H4C6H4COSCH2CH2NET2.HCl, m. 223-5° (alc.).
 2-O2NC6H4C6H4CO2H-4 (7 g.) is heated with 6 g. PCl5 on H2O bath 14 hrs., condensed in vacuo, and recrystd. from ligroin-C6H6 to give 6 g. chloride (IV). IV (2.5 g.) in C6H6 is heated with 2.6 g. XCH2CH2OH 8 hrs., cooled, filtered, the filtrate condensed, extracted with C6H6, HCl gas passed, and the precipitate recrystd. from alc. to give 2 g. 2-O2NC6H4C6H4CO2CH2CH2X.HCl, m. 201-3°. Similarly were prepared the following 2-RC6H4C6H4CO2R'-4.HCl (R, R', and m.p. given): NH2, CH2CH2X, - (picrate, m. 212-14°); NO2, CH2CH2Y, 182-3°; NH2, CH2CH2Y, (picrate, m. 203-5°). 4-ClC6H4C6H4COCl-4 (1 g.) in 3 g. Et2NCH2CH2OH is heated on H2O bath 3 hrs., condensed in vacuo, alkalinized

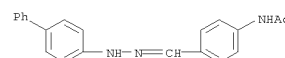
L10 ANSWER 55 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 with 2% NaOH, extd. with ether, the ext. dried, HCl gas passed, and the ppt. recrystd. from MeOH to afford 0.8 g. (4-Et2NCH2CH2O2CC6H4)2.2HCl, m. 254-5°. Similarly were prepd. the following (4-RO2CC6H4)2.2HCl (R and m.p. given): CH2CH2X, 262-4° (dil. alc.); CH2CH2Y (V), 333-4° (MeOH); 2-diethylaminocyclohexyl, 167-8° (acetone).
 Local anesthetic activities of these compds. were tested, using rabbit. Name of compd., duration of anesthetic activity on topical cornea (min.) of 1% soln., and that on infiltration eyelid (min.) of 0.3% soln. are given. I, 12, 12; II, 10, 12; III, 10, 12; V, 6, 41; cocaine, 14, -; procaine -, 23.
 IT 110939-09-8 111293-71-1 111584-65-7
 113181-36-5 (Derived from data in the 6th Collective Formula Index (1957-1961))
 RN 110939-09-8 CAPLUS
 CN Benzaldehyde, 2-hydroxy-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



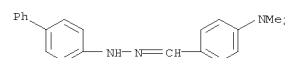
RN 111293-71-1 CAPLUS
 CN Benzaldehyde, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



RN 111584-65-7 CAPLUS
 CN Acetamide, N-[4-[(2-[1,1'-biphenyl]-4-ylhydrazinylidene)methyl]phenyl]- (CA INDEX NAME)

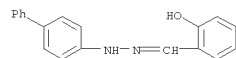


RN 113181-36-5 CAPLUS
 CN Benzaldehyde, 4-(dimethylamino)-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)

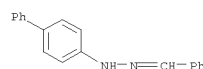


L10 ANSWER 56 OF 59 CAPLUS COPYRIGHT 2011 ACS ON STN
ACCESSION NUMBER: 1958:40444 CAPLUS
DOCUMENT NUMBER: 52:40444
ORIGINAL REFERENCE NO.: 52:7232c-i, 7233a-f
TITLE: Dehydration of cis- and trans-2-phenylcyclohexanols
AUTHOR(S): Eliel, Ernest L.; McCoy, Joseph W.; Price, Charles C.
CORPORATE SOURCE: Univ. of Notre Dame, Notre Dame, IN
SOURCE: Journal of Organic Chemistry (1957), 22, 1533-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Dehydration of trans-2-phenylcyclohexanol (I) by 85% H3PO4 was reinvestigated, using infrared, ultraviolet, and mass spectrometry to determine the composition of the products. Extensive rearrangement occurred to give a product containing 14% 1-phenylcyclohexane (II), 20% unconjugated 3- (III) and 4-phenylcyclohexenes (IV), 17% benzalcyclopentane (V), 46% unconjugated 1- (VI), 3- (VII), and 4-benzylcyclopentene (VIII), and 4% 1,3-endoethylene-1,2,3,4-tetrahydronaphthalene (IX). These findings were in substantial agreement with results obtained by Schaeffer and Collins (C.A. 50, 12884g), as is the observation that dehydration of cis-2-phenylcyclohexanol (X) involves substantially no rearrangement. Pyrolysis of 2-phenylcyclohexylmethyl sulfite led to 57% 1-phenylcyclohexene (XI) and 43% III with less than 2% ring contraction product starting with the cis isomer (XII). On the other hand, in the case of the trans isomer (XIII) about 21% of the pyrolysis product had suffered ring contraction. Raney Ni hydrogenation of o-phenylphenol at 100-10° and 2000-300 lb./sq. in. gave X, m. 40-2°. Mixed 2-phenylcyclohexanol (417 g.) was refluxed 90 hrs. with 2700 ml. iso-PrOH containing 167 g. Al(OPr-iso)3 and 9 ml. Me2CO, after 2
1. solvent was removed the residue poured into 3.5 l. H2O containing 300 ml. HCl, the organic layer separated, the aqueous layer extracted with Et2O, and the combined organic material washed with dilute acid and H2O, dried, and distilled gave I, m. 55-7°. I refluxed gently 4 hrs. with an equal volume H3PO4, after dilution with H2O, extraction with Et2O, and distillation of the residue, gave the following results (experiment number, cis or trans form of I, method, % yield, b.p./mm., n20D, ε252, and ε248 given): 1, cis, H3PO4, 88, 115-30°/16, 1.5641, 9400, 10,000; 2, cis, H3PO4, 89, 115-30°/16, 1.5637, -, -; 3, trans, H3PO4, 85, 105-17°/12, 1.5493, 5880, 5830; 4, trans, H3PO4, 87, 109-21°/13, 1.5498, 5990, -; 5, cis, Bertl, 90, 115-30°/15, 1.5583, 7140, 7480; 6 trans, Bertl, 80, 116-32°/15, 1.5550, 6950, 7040. The dehydration product (7.9 g.) from the trans I gave after ozonization 0.5 g. material, bl3 below 105°, which gave a precipitate with 2,4-dinitrophenylhydrazine, m. 237-8°, undepressed when mixed with benzaldehyde 2,4-dinitrophenylhydrazine. None of the cyclopentanone derivative could be isolated. Oxidation of 5 g. of the same mixture by refluxing with aqueous KMnO4 followed by filtration and precipitation with acid gave 2.1 g. mixed acids, m. 120-80°. Solution in 10% KOH and repptn. gave BzOH. Continuous extraction

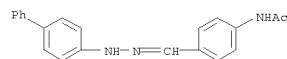
L10 ANSWER 56 OF 59 CAPLUS COPYRIGHT 2011 ACS ON STN (Continued)
pyrolysis product, according to refractive index and ultraviolet absorption, contained 57% 1-phenylhexene and 43% III.
IT 110939-09-8 111293-71-1 111584-65-7
113181-36-5
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 110939-09-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



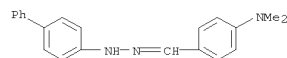
RN 111293-71-1 CAPLUS
CN Benzaldehyde, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



RN 111584-65-7 CAPLUS
CN Acetamide, N-[4-[(2-[1,1'-biphenyl]-4-ylhydrazinylidene)methyl]phenyl]- (CA INDEX NAME)

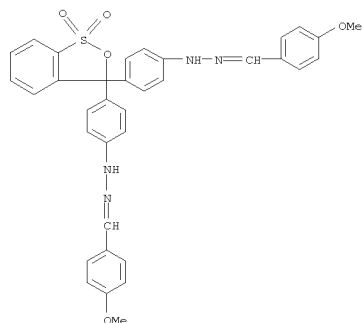


RN 113181-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)

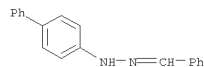


L10 ANSWER 56 OF 59 CAPLUS COPYRIGHT 2011 ACS ON STN (Continued)
of the mother liquor with Et2O gave 250 mg. acid which when repeatedly sublimed gave phthalic anhydride, m. 129-30°. In the Bertl dehydration (C.A. 49, 5364i) the alcs. were converted by Me chlorosulfinate in C5H5N and Et2O at -5° into the Me sulfite esters. Crude XII (94%), n20D 1.5320, and XIII (89%), m. 46-8°, were pyrolyzed without purification and the olefins produced redistd. in vacuo over Na to give material with properties as reported (X in PhCH(CH2)4CHX, compd. used, method, % 1-Ph deriv., % 3-Ph deriv., and % ring contraction given): OH, XII, H3PO4, 88, 2, 3; OH, XIII, H3PO4, 17, 63; OSO2Me, cis, pyrolysis, 57, 43, 2; OSO2Me, trans, pyrolysis, -, (combined yield 79%), 21. XI was prepd. by heating 1-phenylcyclohexanol with an equal wt. of KHSO4 0.5 hr. at 140-50° and (distg. the olefin twice, λ 9.44, 10.86, 12.44, 13.48, 15.27 μ. III was prepd. both by the Chugaev procedure from cis-2-phenylcyclohexanol (C.A. 45, 7090i) and reaction of 3-bromocyclohexene with PhMgBr. The infrared bands for XII are at 11.23, 11.37, 12.70, 13.86, and 14.88 μ. Cyclopentanone and PhCH2MgCl gave 1-benzylcyclopentanol, m. 59.5-61.0°, which was dehydrated by heating with (CO2H)2 to give VI, bl4 108-9°, n20D 1.5363, λ 9.32, 9.70, and 10.40 μ. VI was also obtained by dehydration of the alc. with iodine. Conversion of the alc. to the corresponding chloride by shaking with concd. HCl, and dehydrohalogenation with N(CH2CH2OH)3 gave VI, bl2 103-20°, n20D 1.5362-1.5484; the infrared spectrum indicated that the material was essentially pure. Crude 1-chloro-1-benzylcyclopentane (208 g.) brominated in refluxing CCl4 by adding Br under irradiation with a tungsten lamp., the residue of crude α-(1-chlorocyclopentyl)benzyl bromide added dropwise to 150 g. Zn powder in 1 l. refluxing alc., after completion of the addn. a further 50 g. Zn dust added, and the mixt. stirred 8 hrs., and the product isolated gave 110 g. crude V, bl2 115-19°. Attempted distn. from Na at 14 mm. apparently led to rearrangement to benzylcyclopentene. Distn. over Na at 1.9 mm. gave pure V, bl.9 86°, n20D 1.5752. V crystd. when cooled to -20°. Cyclopentylcarbinol prepd. in poor yield from cyclopentylmagnesium bromide with BzH bl3 142-3.5°, n20D 1.5412. This carbinol was converted to crude V, which however did not cryst. even when cooled to -20° and contained some sulfurous by-product. The spectra of V prepd. by the above 2 methods was very similar, λ 9.84, 10.99, and 11.61 μ. IX was prepd. from C6H6 and cyclopentene-1-carboxylic acid and bl3.5 108°, n20D 1.5555, λ 9.05, 9.45, 9.62, 10.20, 10.35, 10.56, 12.95, and 13.86 μ. Hydrogenation of benzylcyclopentene over Raney Ni at 44 lb./sq. in. gave a mixt. of VI, VII, and VIII, bl2.5 103-4°, n20D 1.5178, λ 9.69, 9.27, and 11.04 μ. II was purified by fractionation of com. material through a 24 in. helix packed column, bl3 107°, n20D 1.5255, λ 9.35, 9.94, 10.03, 11.29, and 11.58 μ. The products of runs 2, 4, 5, and 6 were hydrogenated over Raney Ni under 32-45 lb./sq. in. at room temp. The hydrogenated products had the following properties: run 4, bl3 104-5°, n20D 1.5217; run 5, bl5 111-13°, n20D 1.5261; run 6, bl4 107-8°, n20D 1.5240. The distd. hydrogenation products were analyzed mass spectroscopically and showed the following compns.: run 2, 2.6% V, 97.4% II; run 4, 62.6% V, 33.5% II, 3.9% IX; run 5, 1.7% V, 98.3% II; run 6, 21.4% V, 78.6% II. Hydrogenation of the pyrolysis product of XII gave material which, according to mass spectrometric analysis, contained 98.3% II and 1.7% benzylcyclopentane, proving substantial absence of ring contraction. The

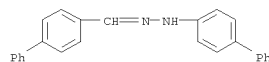
L10 ANSWER 57 OF 59 CAPLUS COPYRIGHT 2011 ACS ON STN
ACCESSION NUMBER: 1950:45425 CAPLUS
DOCUMENT NUMBER: 44:45425
ORIGINAL REFERENCE NO.: 44:8661d-i
TITLE: Triphenylmethane dyes containing the hydrazone group and their condensation products with aldehydes
AUTHOR(S): Kuhn, Lester P.; DeAngelis, Louis
CORPORATE SOURCE: Ballistic Research Lab., Aberdeen, MD, USA
SOURCE: Journal of the American Chemical Society (1949), 71, 3084-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA issue.
AB Three hydrazino-triphenylmethane dyes were prepared and tested with aldehydes to yield the corresponding hydrazones. An explanation is provided for the color change accompanying this reaction which corrects misconceptions of previous workers. The absorption of these compds. in the visible region was measured. The usefulness of these dyes as reagents for the qual. determination of aldehydes is demonstrated and the possibility of using for quant. detns. is indicated. The relation between the color and the constitution of the compds. is discussed and the principles set forth by previous workers on other dyes have been extended (Brooker, C.A. 37, 1653.7; Tolbert, et al., C.A. 39, 3481.8; 40, 2384.6). The dyes are of the form: Dyes I and II were prepared by the hydrolysis of the corresponding benzalhydrazones. Absorption spectra of I, II, and III are given. They were not isolated but were used in the solns. in which they were prepared III was prepared in the same manner except that the benzo-trichloride was replaced by the pseudo dichloride of o-sulfobenzoic acid. PhOCl3 + 2PhCH = NNRPh → 2nCl2 [(PhCH:NNRC6H4)2CPh]+ Cl- + 2HCl; [(PhCH:NNRC6H4)2CPh]+ Cl- + 2H2O → H2S4O 2BzH + [(H2NNRC6H4)2CPh]+Cl-.
IT 855950-04-8F, p-Anisaldehyde, dihydrazone with α,α-bis(p-hydrazinophenyl)-α-hydroxy-o-toluenesulfonic acid sultone
Rl: PREP (Preparation)
(preparation of)
RN 855950-04-8 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-[3-[4-[2-[(4-methoxyphenyl)methylene]hydrazinyl]phenyl]-1,1-dioxido-3H-2,1-benzoxathiol-3-yl]phenyl]hydrazone (CA INDEX NAME)



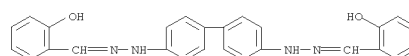
ACCESSION NUMBER: 1950:5511 CAPLUS
DOCUMENT NUMBER: 44:5511
ORIGINAL REFERENCE NO.: 44:1102e-i,1103a-b
TITLE: Diphenylsubstituted formazans and tetrazolium salts
AUTHOR(S): Jerchel, Dietrich; Fischer, Hans
SOURCE: Justus Liebig's Annalen der Chemie (1949), 563, 200-7
CODEN: JLABCF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB Com. PhC:N.NPh.N+Ph:N Cl- (I) (0.5 g.), when reduced with 0.3 g. ascorbic acid in H₂O, after addition of a few drops 2 N NaOH gave PhNHN:CPH(N:NPh) (II), m. 172-4° (from Me₂CO), which with Cu, Co, and Ni acetates gave the nearly black crystalline complexes CuC₃H₃ON₈, m. 233-4°, the Co analog, m. 147-50°, and the Ni analog, m. 292-4°. Pure I m. 256-8° (from pyridine followed by EtOH-Et₂O); corresponding thiocyanate, C₂OH₁₅N₅S, yellow needles, m. 134-6° (from EtOH-Et₂O); picrate, m. 186-8° (from EtOH); HgCl₂ derivative of I, C₁₉H₁₅N₄Cl.HgCl₂. I (1 mg.) in 1 cc. H₂O and 5 drops 2 N NaOH, with 2 drops 1% colloidal Pd and 1 drop 25% aqueous HCHO gave instantaneously a red precipitate of II. From 8 g. 4-PhC₆H₄CH:NNHPh (Gattermann, Ann. 347, 381 (1906)) in 20 cc. pyridine and 400 cc. MeOH at 0°, 17 g. AcONa, and PhN₂Cl (from 2.8 g. PhNH₂) was formed 10 g. 4-PhC₆H₄C(N₂Ph):NNHPh, dark red needles, m. 194-5° (from aqueous Me₂CO), 2 g. of which in 80 cc. CHCl₃ with AmONO gave 5-(4-biphenyl)-2,3-diphenyltetrazolium chloride (1 mole MeOH), colorless, m. 220-2° (from MeOH-Et₂O). Similarly PhCH:NNHPh and 4-PhC₆H₄N₂Cl (III) (prepared by reduction of O₂NC₆H₄Ph with Raney Ni and very gradual diazotization) gave PhC(N₂C₆H₄Ph-4):NNHPh, dark red needles, m. 167-8° (from Me₂CO-H₂O) [cf. Wedekind, Ann. 300, 253 (1897), who gives 174°], yielding the tetrazolium chloride, C₂₅H₁₉N₄Cl (IV), m. 242-3° (from EtOH-Et₂O). 4-PhC₆H₄NNH₂.HCl (V) (6-10 g.) was prepared by diazotization of 4-H₂NC₆H₄Ph.HCl, reduction with Na₂SO₃ at 0°, heating 3 hrs. at 100 °, treatment with 2 N NaOH and MeOH, hot filtration, and addition of concentrated HCl. BzH (1 g.) and 2 g. V gave 1 g. PhC:NNHC₆H₄Ph-4, m. 126°, which when coupled with IV gave PhC(:NNHC₆H₄Ph)N:NC₆H₄Ph, violet-red needles, m. 172-3° (from Me₂CO); corresponding tetrazolium chloride, C₃₁H₂₃N₄Cl, m. 271-3°. 4-PhC₆H₄CHO and IV gave the corresponding hydrazone, m. 104-5°, from which was prepared C,N,N'-tribiphenylformazan, metallic blackish-red needles, m. 190-3° (from Me₂CO), 211-13° (from benzene), and 214-16° (from CHCl₃) (all samples giving excellent analytical data for C₃₇H₂₈N₄); tetrazolium chloride, C₃₇N₂H₂₄Cl (VI), pale yellow needles, m. 220-1° (from EtOH-Et₂O). Absorption spectra for all formazans are given, as well as orienting toxicological expts. with I (injected intraperitoneally and intravenously into mice). Toward fish (Barbus conchionius), I was more toxic than methylidiphenyltetrazolium chloride, but less toxic than V. VI was too slightly soluble for toxicity expts.
IT 111293-71-1P, Benzaldehyde, (4-biphenyl)hydrazone
854235-84-0P, 4-Biphenylcarboxaldehyde, 4-biphenylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 111293-71-1 CAPLUS



RN 854235-84-0 CAPLUS
CN [1,1'-Biphenyl]-4-carboxaldehyde, 2-[1,1'-biphenyl]-4-ylhydrazone (CA INDEX NAME)



ACCESSION NUMBER: 1925:25049 CAPLUS
DOCUMENT NUMBER: 19:25049
ORIGINAL REFERENCE NO.: 19:32584,3259a-c
TITLE: Colors produced by the action of sulfuric acid upon some hydrazones
AUTHOR(S): Chattaway, F. D.; Ireland, S. J.; Walker, A. J.
SOURCE: Journal of the Chemical Society, Transactions (1925), 127, 1851-5
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB While the colors produced by dissolving hydrazones in concentrated H₂SO₄ are not very characteristic, those given by many of the hydrazones of diphenylene-4,4'-dihydrazine (I), p-IC₆H₄NNH₂ (II) and 4,2-I(Me)₂C₆H₃NNH₂ (III) are of a peculiarly intense shade of Co-blue. These colors are probably due to the formation of salts of a quinonoid structure. The colors produced by the NO₂ derivs. and alc. KOH are probably due to the production of salts of the aci-form of the NO₂ compound.
The following gives the color and m. p. of the compound, the color with concentrated H₂SO₄ and (in some cases) with alc. KOH. Perivs. of I: Benzaldehyde, pale yellow, 283° (decomposition), brilliant Co-blue, slowly fading to yellowish brown. Salicylaldehyde, pale yellow, 264° (decomposition), indigo-blue, changing to green and finally yellow. Cinnamaldehyde, yellow, 253° (decomposition), deep sap-green. Anisaldehyde, pale yellow, 248° (decomposition), bright green. Acetophenone, pale yellow, 250° (decomposition), heliotrope. Benzophenone, yellow, 145° (decomposition), bright violet, changing to a dirty black. Pyruvic acid, yellow, 225° (decomposition), dark orange-red changing to magenta, pale yellow in alc. KOH. o-Nitrobenzaldehyde, dark red, m. 247° (decomposition), intense brilliant Co-blue changing in 15-20 min. to a greenish or peacock-blue and after 1-2 hrs. to olive-green and then finally to yellowish brown, deep green in warm alc. KOH; m-derivative, dark red, 257° (decomposition), color similar to the o-derivative but changing less slowly, brown in alc. KOH; p-derivative, deep red, 275° (decomposition) color similar to the o- and m-derivs.; alc. KOH gives a similar Co-blue color. The colors developed with the BzH and O₂NC₆H₄CHO derivs. of II and III are also described.
IT 861368-57-2, Salicylaldehyde, α,α'-(p,p'-biphenylene)bishydrazone (color of solution of, in H₂SO₄)
RN 861368-57-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[4'-[2-[(2-hydroxyphenyl)methylene]hydrazinyl]1,1'-biphenyl]-4-yl]hydrazone (CA INDEX NAME)



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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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